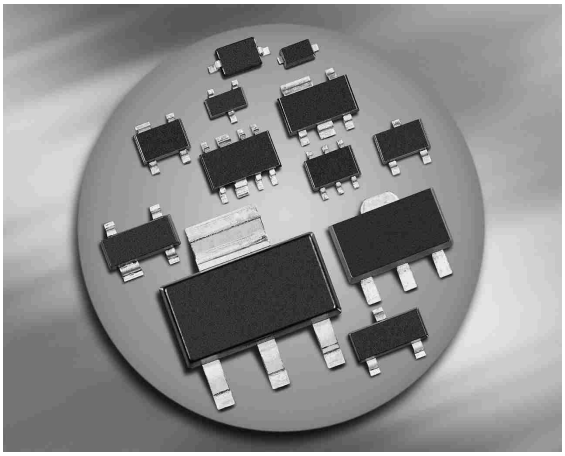
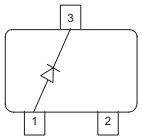
Silicon Schottky Diodes

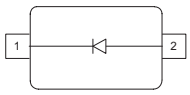
- For low-loss, fast-recovery, meter protection, bias isolation and clamping application
- Integrated diffused guard ring
- Low forward voltage



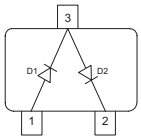
BAT64



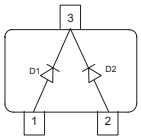
BAT64-02V
BAT64-02W



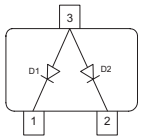
BAT64-04
BAT64-04W



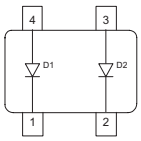
BAT64-05
BAT64-05W



BAT64-06
BAT64-06W



BAT64-07



ESD: **E**lectro**s**tatic **d**ischarge sensitive device, observe handling precaution!

Type	Package	Configuration	L_S(nH)	Marking
BAT64	SOT23	single	1.8	63s
BAT64-02V*	SC79	single	0.6	t
BAT64-02W	SCD80	single	0.6	64
BAT64-04	SOT 23	series	1.8	64s
BAT64-04W	SOT323	series	1.4	64s
BAT64-05	SOT23	common cathode	1.8	65s
BAT64-05W	SOT323	common cathode	1.4	65s
BAT64-06	SOT23	common anode	1.8	66s
BAT64-06W	SOT323	common anode	1.4	66s
BAT64-07	SOT143	parallel pair	2	67s

* Preliminary data

Maximum Ratings at T_A = 25°C, unless otherwise specified

Parameter	Symbol	Value	Unit
Diode reverse voltage	V_R	40	V
Forward current	I_F	250	mA
Non-repetitive peak surge forward current ($t \leq 10$ms)	I_{FSM}	800	
Average forward current (50/60Hz, sinus)	I_{FAV}	120	
Total power dissipation	P_{tot}		mW
BAT64, $T_S \leq 86$°C		250	
BAT64-02V, BAT64-02W, $T_S \leq 121$°C		250	
BAT64-04, BAT64-06, BAT64-07, $T_S \leq 61$°C		250	
BAT64-04W, BAT64-06W, $T_S \leq 111$°C		250	
BAT64-05, $T_S \leq 36$°C		250	
BAT64-05W, $T_S \leq 104$°C		250	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ... 150	

Thermal Resistance

Parameter	Symbol	Value	Unit
Junction - soldering point[1)]	R_{thJS}		K/W
BAT64		≤ 255	
BAT64-02V, BAT64-02W		≤ 115	
BAT64-04, BAT64-06, BAT64-07		≤ 355	
BAT64-04W, BAT64-06W		≤ 155	
BAT64-05		≤ 455	
BAT64-05W		≤ 185	

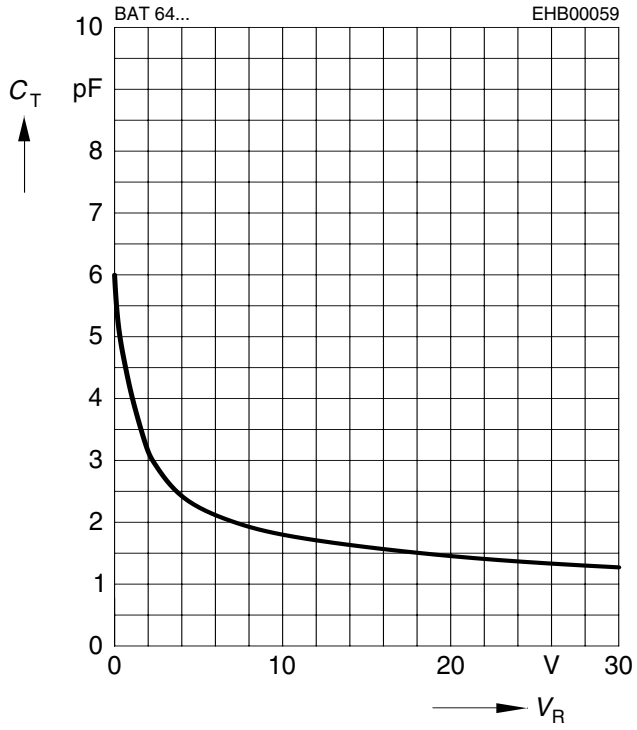
[1]For calculation of R_{thJA} please refer to Application Note Thermal Resistance

Electrical Characteristics at T_A = 25°C, unless otherwise specified

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
DC Characteristics					
Breakdown voltage $I_{(BR)}$ = 10 µA	$V_{(BR)}$	40	-	-	V
Reverse current	I_R				µA
V_R = 30 V		-	-	2	
V_R = 30 V, T_A = 85 °C		-	-	200	
Forward voltage	V_F				mV
I_F = 1 mA		270	320	350	
I_F = 10 mA		310	385	430	
I_F = 30 mA		370	440	520	
I_F = 100 mA		500	570	750	
AC Characteristics					
Diode capacitance V_R = 1 V, f = 1 MHz	C_T	-	4	6	pF
Reverse recovery time I_F = 10 mA, I_R = 10 mA, measured I_R = 1 mA , R_L = 100 Ω	t_{rr}	-	-	5	ns

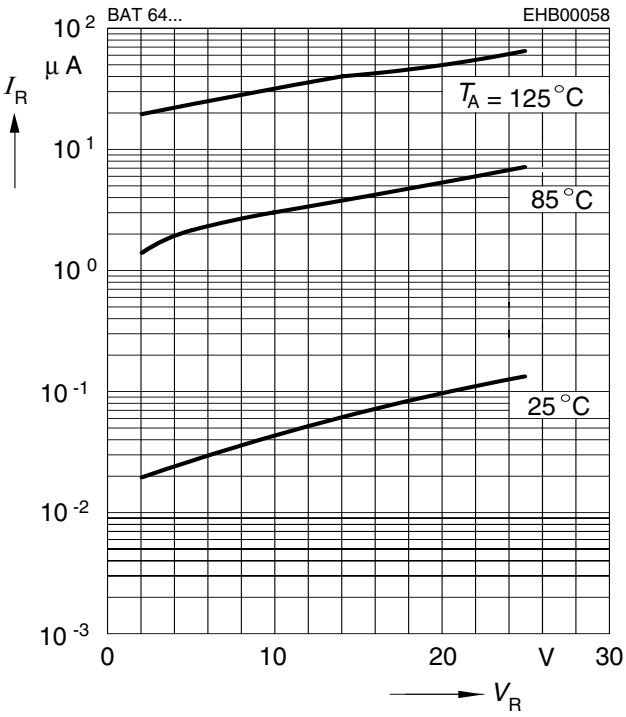
Diode capacitance $C_T = f(V_R)$

f = 1MHz



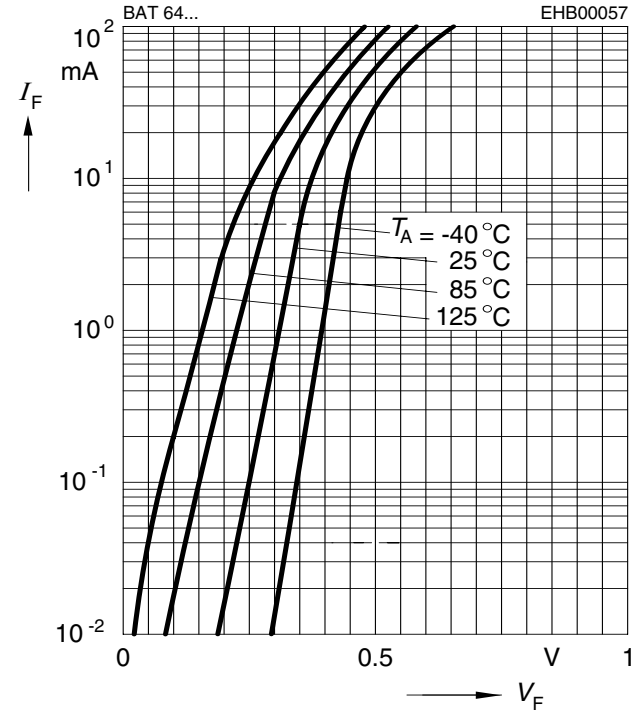
Reverse current $I_R = f(V_R)$

T_A = Parameter



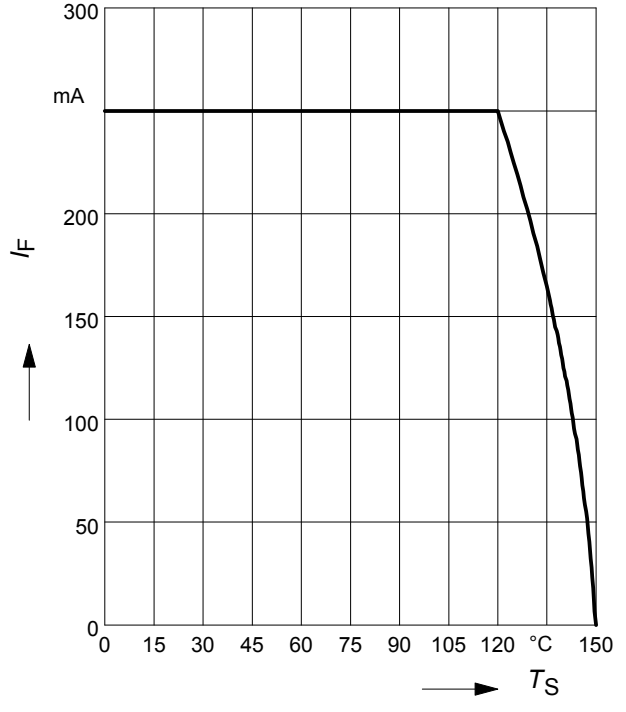
Forward current $I_F = f(V_F)$

T_A = Parameter

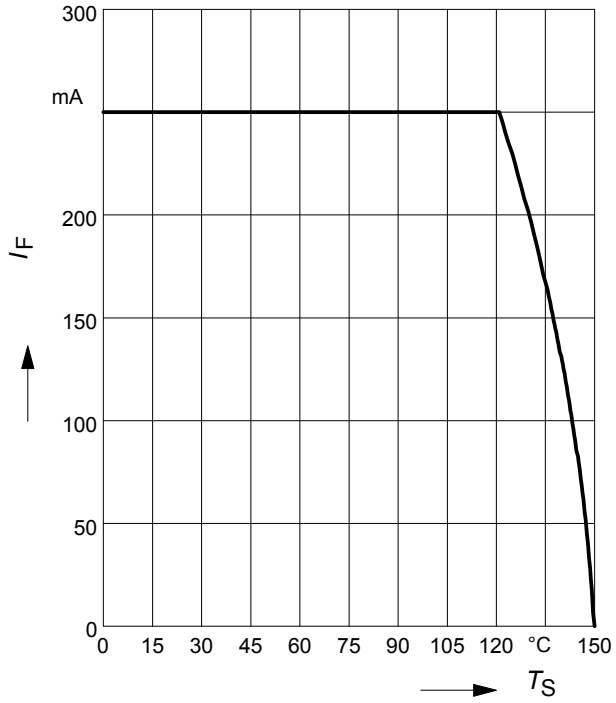


Forward current $I_F = f(T_S)$

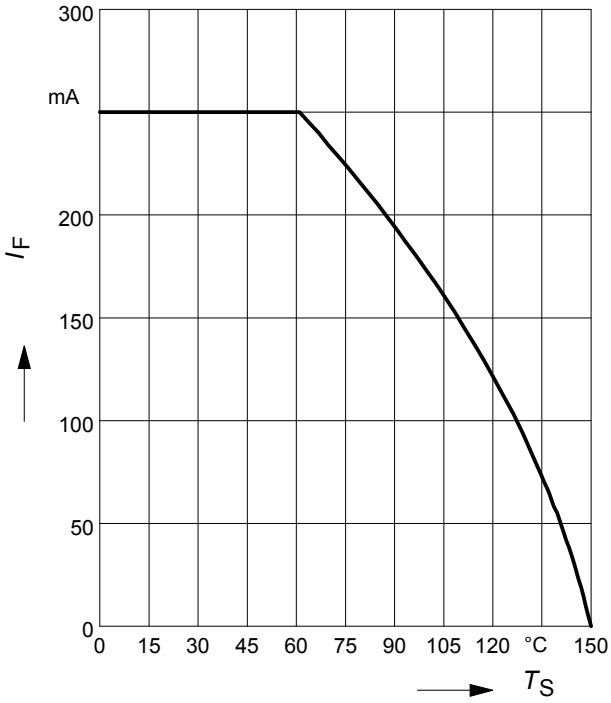
BAT64W



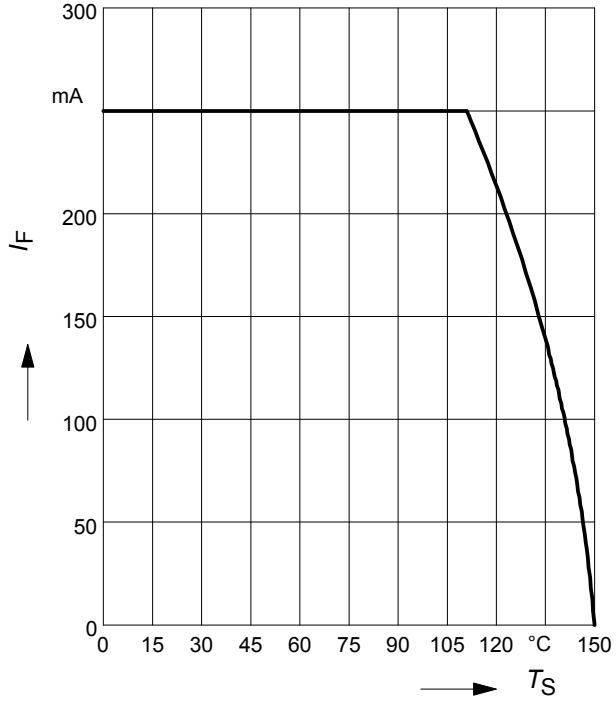
Forward current $I_F = f(T_S)$
BAT64-02V, BAT64-02W



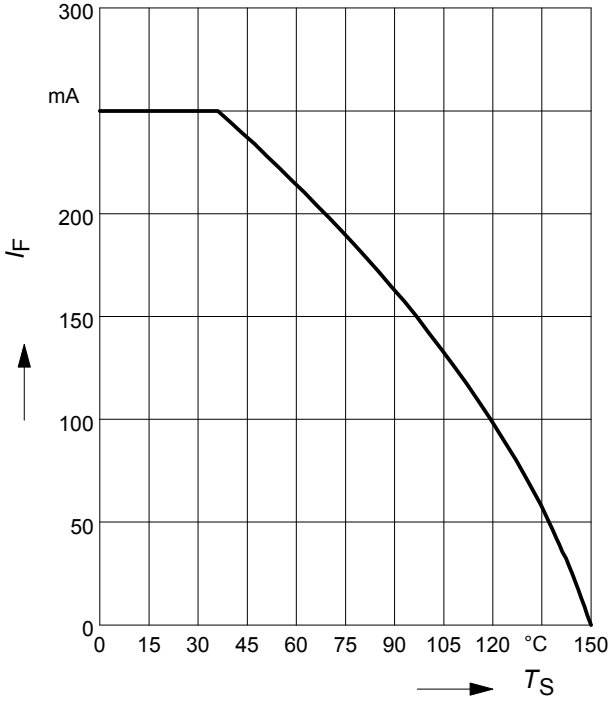
Forward current $I_F = f(T_S)$
BAT64-04, BAT64-06, BAT64-07



Forward current $I_F = f(T_S)$
BAT64-04W, BAT64-06W

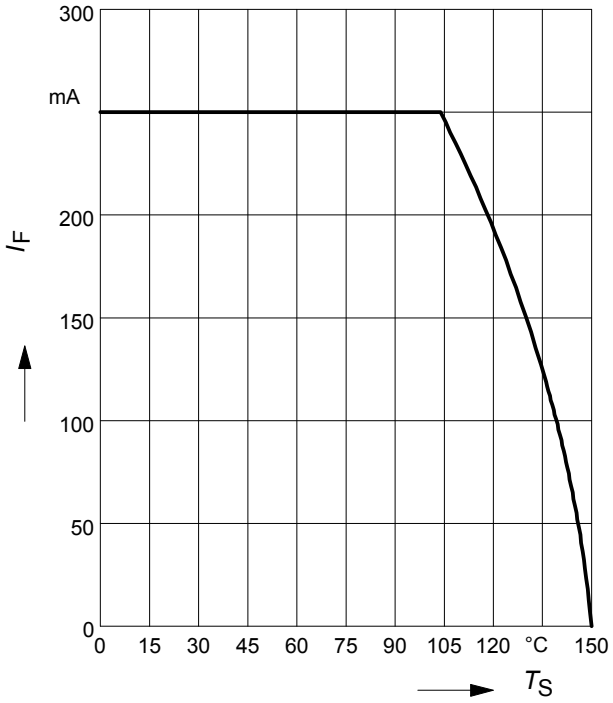


Forward current $I_F = f(T_S)$
BAT64-05



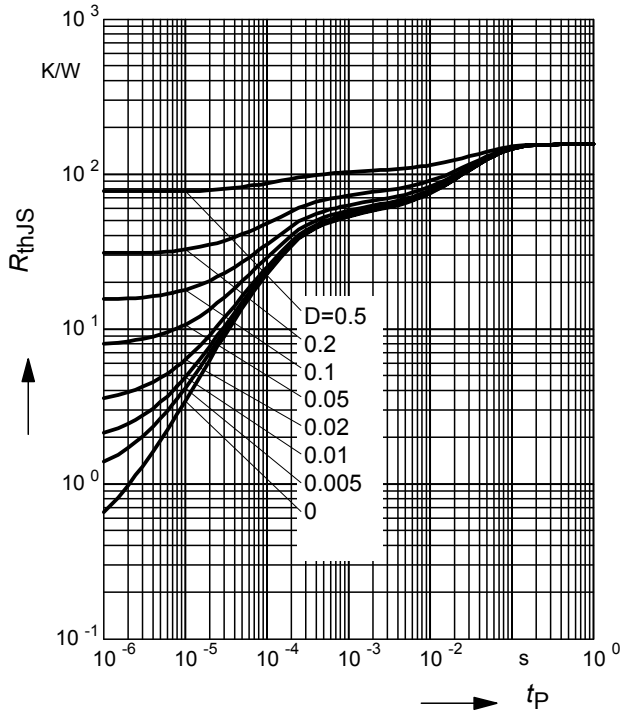
Forward current $I_F = f(T_S)$

BAT64-05W



Permissible Puls Load $R_{thJS} = f(t_p)$

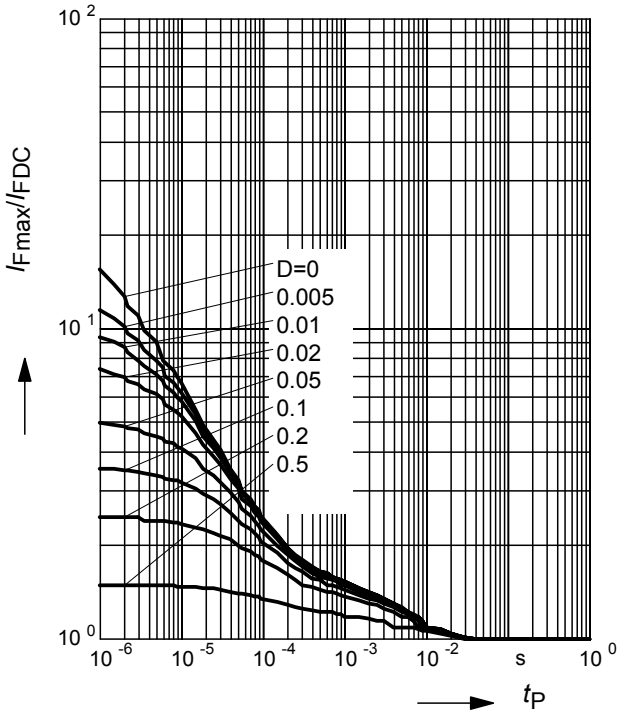
BAT64-02V, BAT64-02W



Permissible Pulse Load

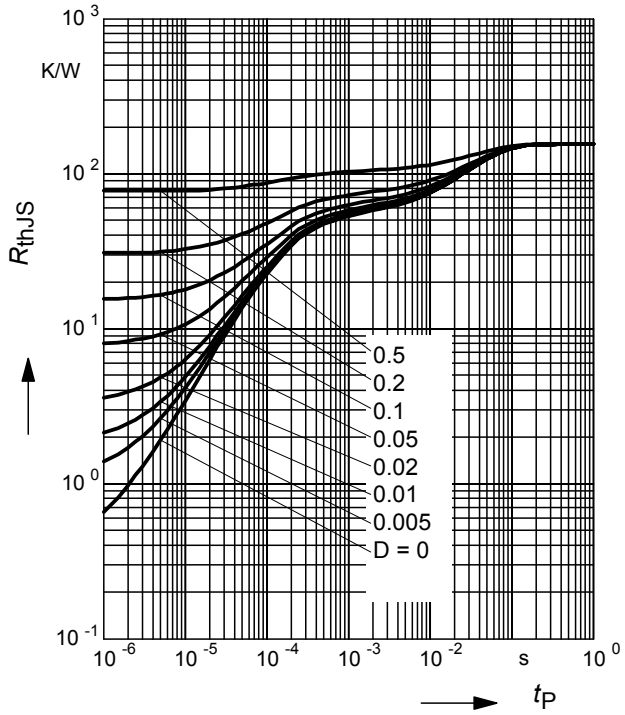
$I_{Fmax}/ I_{FDC} = f(t_p)$

BAT64-02V, BAT64-02W



Permissible Puls Load $R_{thJS} = f(t_p)$

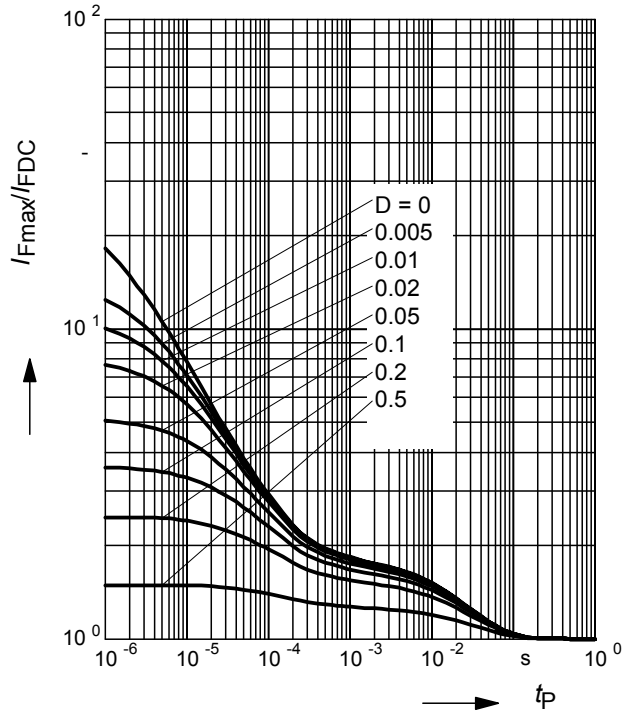
BAT64-04W, BAT64-06W



Permissible Pulse Load

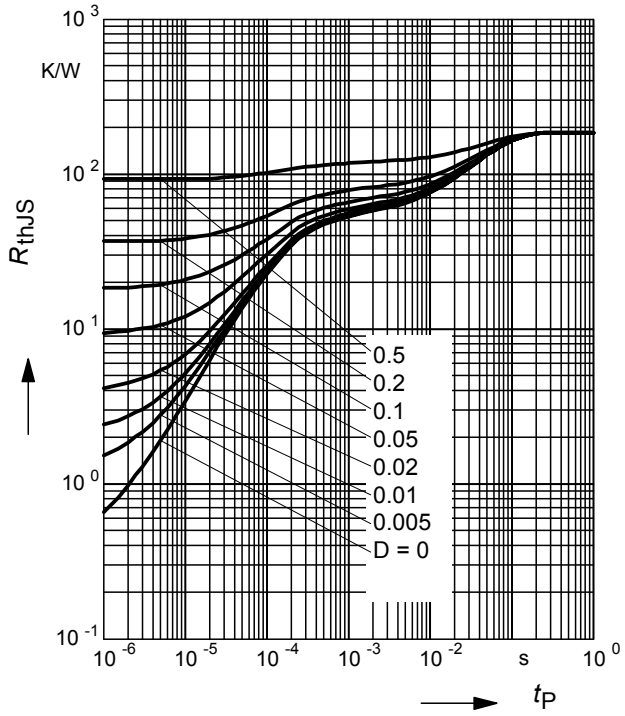
$I_{Fmax}/ I_{FDC} = f(t_p)$

BAT64-04W, BAT64-06W



Permissible Puls Load $R_{thJS} = f(t_p)$

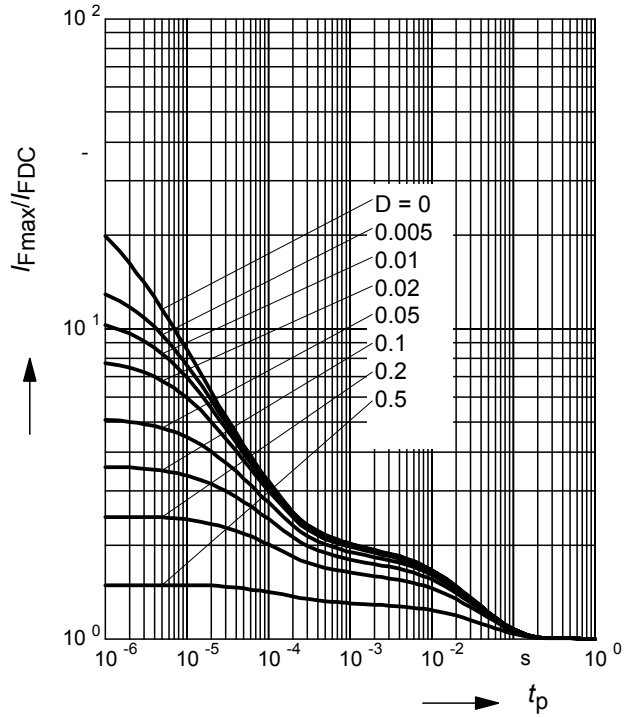
BAT64-05W



Permissible Pulse Load

$I_{Fmax}/ I_{FDC} = f(t_p)$

BAT64-05W



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