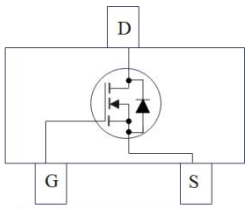
BSN20

N-Channel Enhancement Mode MOSFET

Package(SOT-23)	
	

Features

- 50V/0.1A, $R_{DS(ON)}$=3.5Ω(Max)@V_{GS}=5V, I_D=0.1A
  $R_{DS(ON)}$=10Ω(Max)@V_{GS}=2.75V, I_D=0.1A
- Super High dense cell design for extremely low $R_{DS(ON)}$.
- Reliable and Rugged.
- Low Threshold Voltage(0.5V~1.5V)Make it ideal for Low Voltage Applications.
- SOT-23 for Surface Mount Package.

Absolute Maximum Ratings(T_A=25℃,unless otherwise noted.)

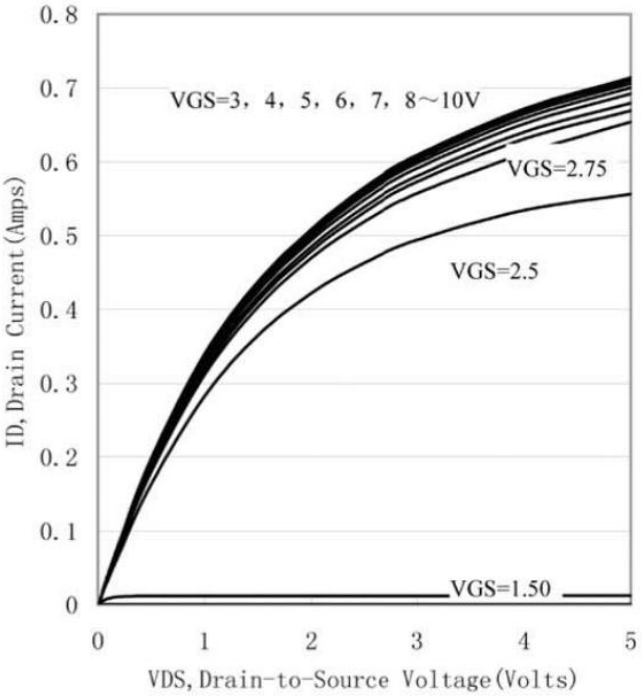
Parameter	Symbol	Rating	Unit
Drain-source Voltage	V_{DS}	50	V
Gate-source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I_D	0.1	A
Operating Junction Temperature Range	T_J	-55 ~ 150	℃
Storage Temperature Range	T_{STG}	-55 ~ 150	℃

Electrical Characteristics(T_A=25℃,unless otherwise noted.)

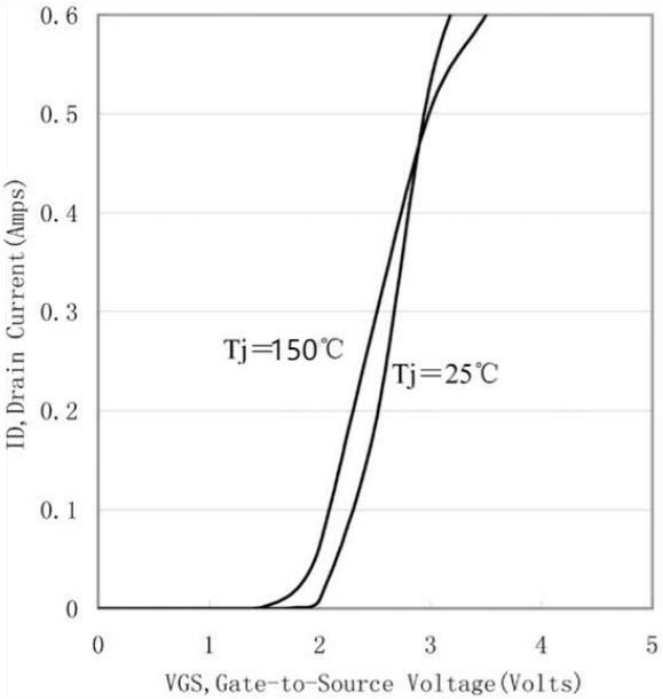
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Drain-source breakdown voltage	BV_{DSS}	V_{GS}=0V, I_D=250μA	50			V
		V_{GS}=0V, I_D=10μA	50			V
Gate Threshold voltage	$V_{GS(th)}$	V_{DS}=V_{GS} , I_D=250μA	0.5		1.5	V
Drain-source leakage current	I_{DSS}	V_{DS}=50V, V_{GS}=0V			500	nA
		V_{DS}=25V, V_{GS}=0V			100	μA
Gate-source leakage current	I_{GSS}	V_{GS}=±20V, V_{DS}=0V			±300	nA
Drain-source on resistance	$R_{DS(on)}$	V_{GS}=5V, I_{DS}=0.2A			3.5	Ω
		V_{GS}=2.75V, I_{DS}=0.2A			10	Ω
Input Capacitance	C_{ISS}	V_{DS} = 10V, V_{GS}= 0V f = 1MHz		21.8	40	pF
Output Capacitance	C_{OSS}			5.6	15	pF
Reverse Transfer Capacitance	C_{RSS}			3.3	10	pF
Diode Forward Voltage	V_{SD}	I_{SD} = 0.2 A,V_{GS} = 0 V			2.5	V

Typical Characteristics

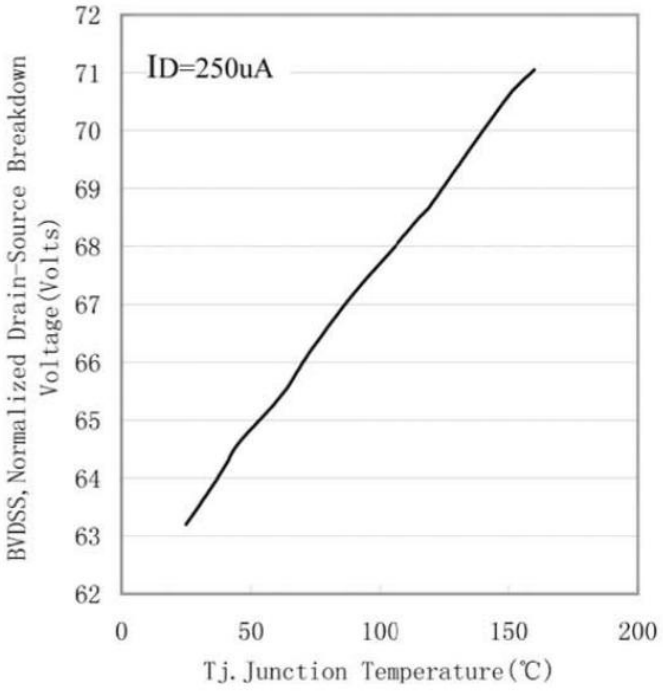
1.Output Characteristics



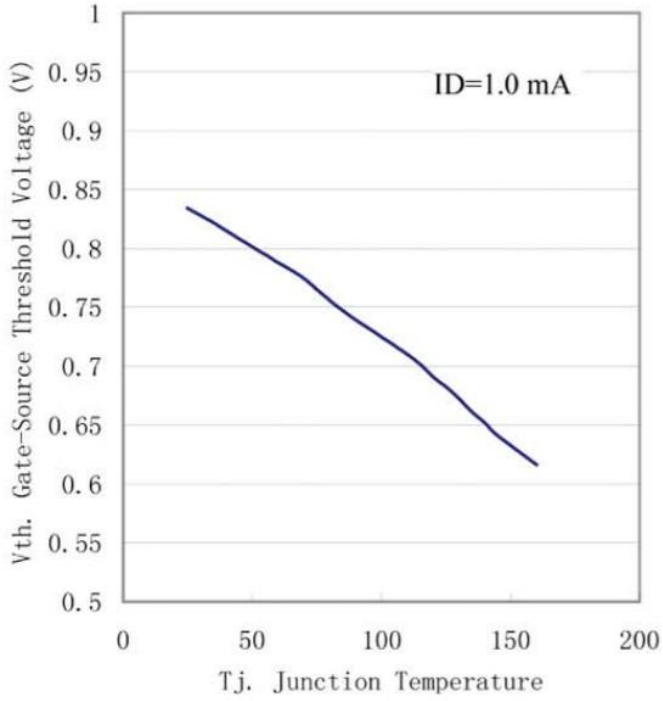
2.Transfer Characteristics



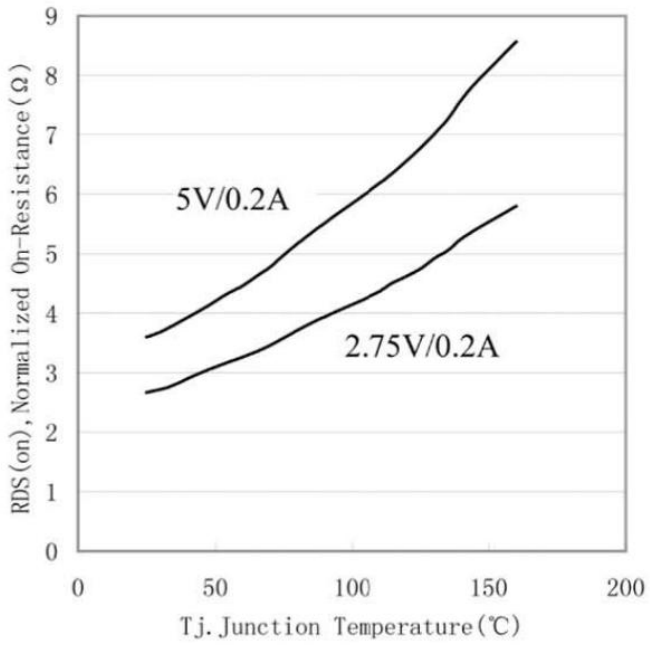
3.Breakdown Voltage Variation with Temperature



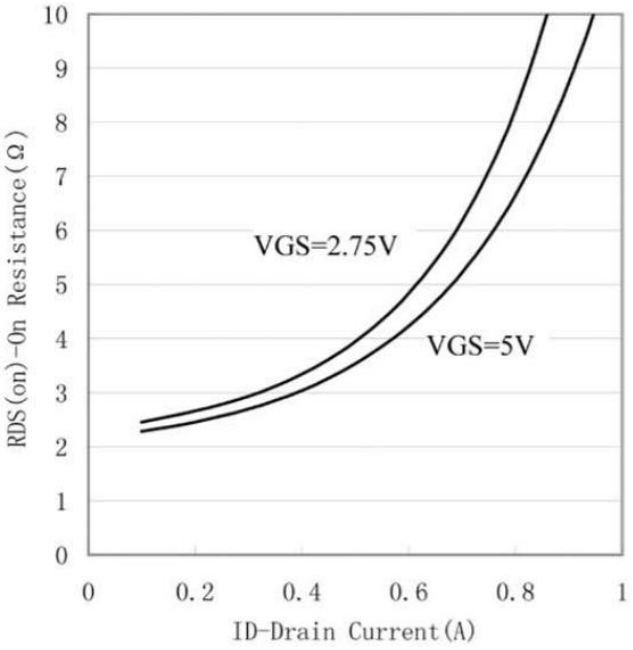
4. Gate Threshold Variation with Temperature



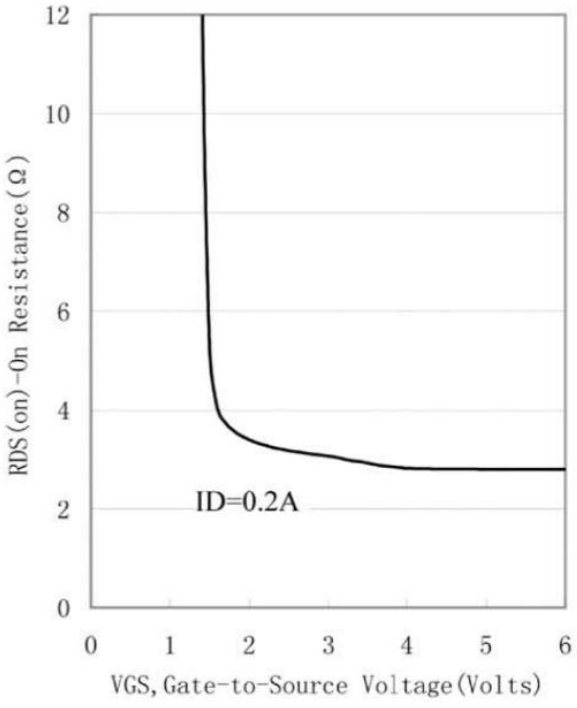
5.On-Resistance Variation with Temperature



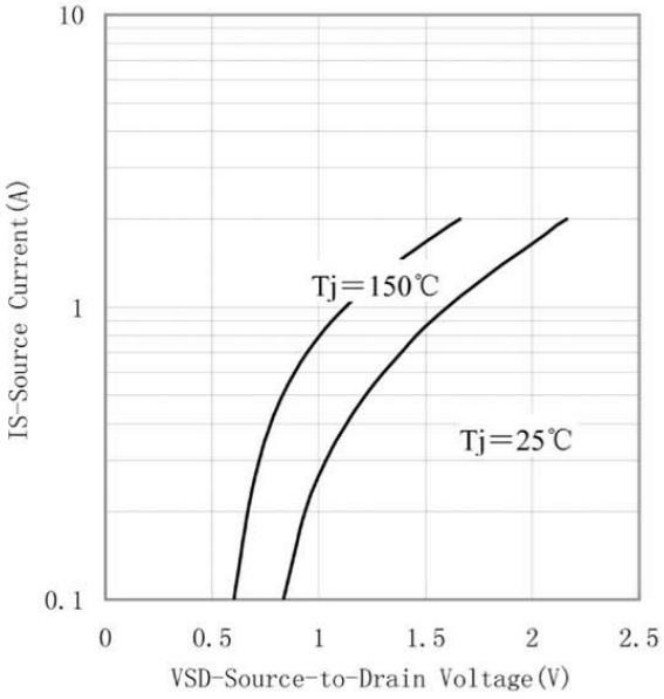
6.On-Resistance vs. Drain Current



7.On-Resistance vs. Gate-to-Source Voltage



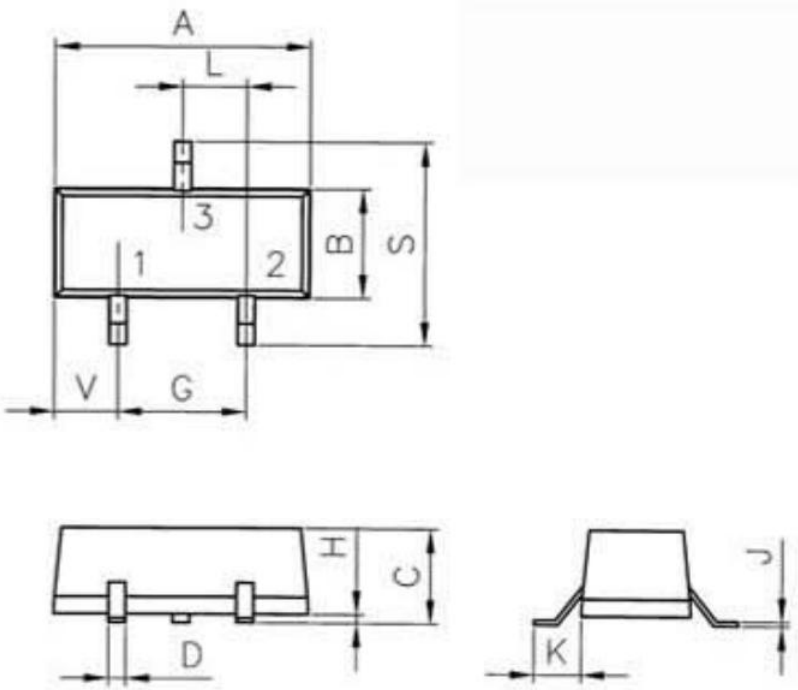
8.Source-Drain Diode Forward Voltage



Package Information

SOT-23

Dimensions in mm



Unit： mm

	SOT-23	
	min	max
A	2.80	3.04
B	1.20	1.40
C	0.89	1.13
D	0.30	0.50
G	1.78	2.04
H	0.01	0.10
J	0.08	0.18
K	0.45	0.60
L	0.89	1.02
S	2.10	2.50
V	0.42	0.60

ENTEGRECİ

Bu belge www.entegreci.com üzerinden sunulmaktadır.

Elektronik komponent tedarikinde Entegreci

Entegreci, Eskişehir merkezli, Türkiye geneline satış yapan bir elektronik komponent mağazasıdır. Entegreler (IC), mikrodenetleyiciler, transistörler, diyotlar, pasif elemanlar, konnektörler, modüller ve geliştirme kartları tek adetten seri üretim adetlerine kadar satılır. Ürün sayfalarında güncel stok durumunu, fiyatı ve datasheet bağlantısını bulabilirsiniz.

Parça koduyla arama

Üretici parça numarasını yazın; stok ve fiyatı hemen görün.

www.entegreci.com

Ürün kategorileri

Entegreden kapasitöre tüm elektronik komponent kategorileri.

Kategorilere göz atın

Üreticiler

Aradığınız üreticinin ürünlerini tek sayfada inceleyin.

Üreticileri görün

Toplu alım ve teklif

Listede olmayan ya da yüksek adetli parçalar için teklif isteyin.

Teklif isteyin

www.entegreci.com | **destek@entegreci.com** | **0850 305 90 34**

Entegreci is an online electronic components store based in Türkiye. Search by manufacturer part number to see stock, prices and datasheets for integrated circuits, microcontrollers, transistors, passive components and connectors, or request a quote for parts that are not listed.

Bu sayfa Entegreci tarafından eklenmiştir. Belgenin önceki sayfaları asıl yayıncısına aittir ve içeriği değiştirilmemiştir; en güncel sürüm için belgenin yayıncısına başvurun.