

# GSDSBAT54 Series

## Surface Mount Schottky Barrier Diodes

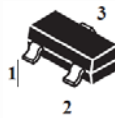
### Product Description

Small signal schottky diodes 300mA / 30V.

### Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient
- SOT-23 Package
- Lead(Pb)-Free

### Packages



SOT-23

### Ordering Information

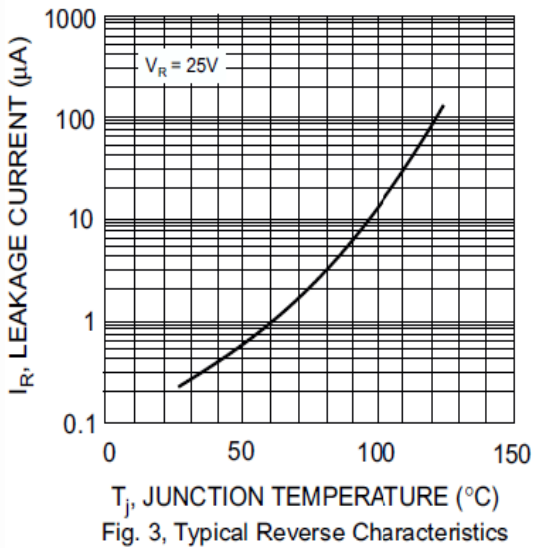
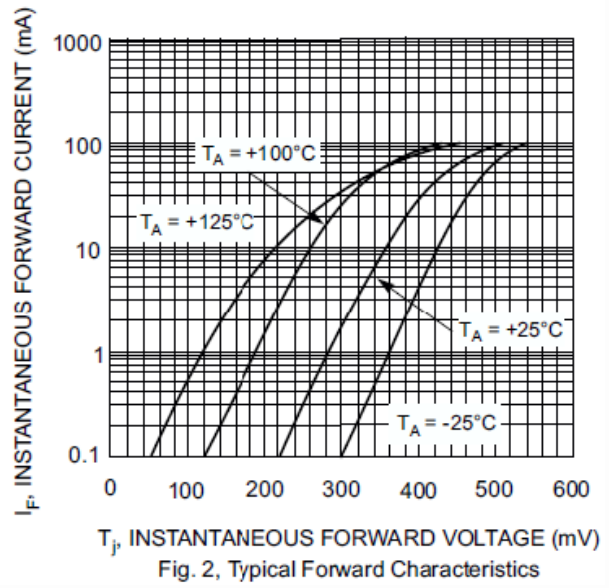
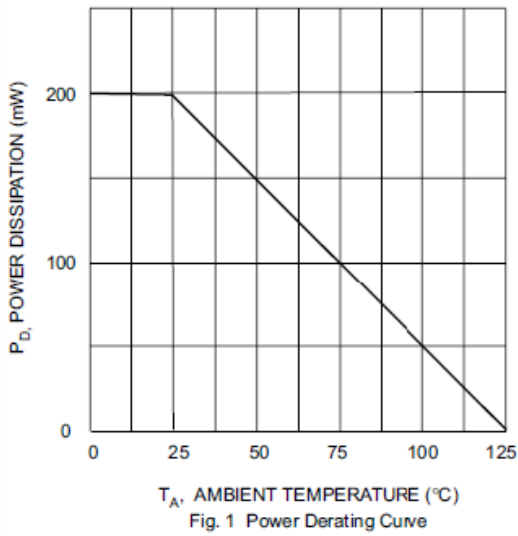
P/N	Package	Equivalent Circuit diagram	Quantity
GSDSBAT54F	SOT-23		3000 PCS
GSDSBAT54CF	SOT-23		
GSDSBAT54AF	SOT-23		
GSDSBAT54SF	SOT-23		

### Absolute Maximum Ratings & Electrical Characteristics

(T<sub>A</sub>=25°C Unless otherwise noted)

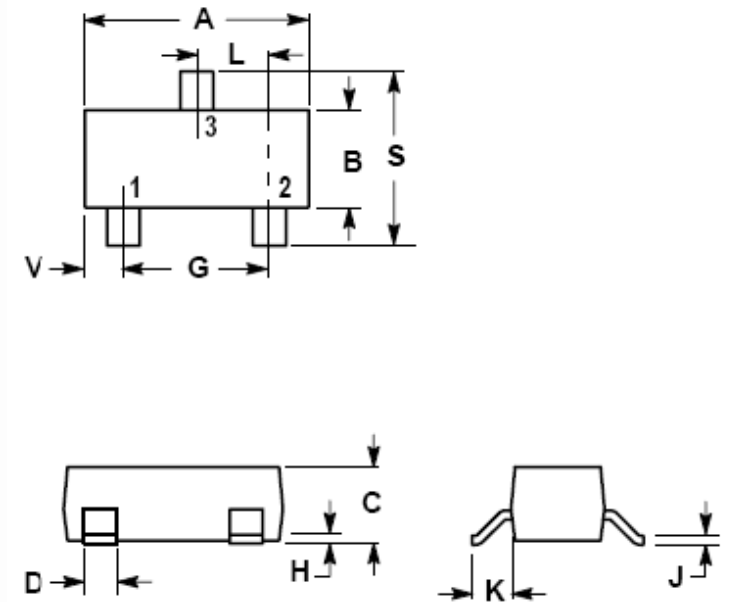
Symbol	Parameter	Value	Unit		
V <sub>RM</sub>	Reverse Voltage (Repetitive Peak)	30	V		
V <sub>R</sub>	Reverse Voltage (DC)	30	V		
I <sub>FRM</sub>	Repetitive Peak Forward Current	300	mA		
I <sub>FSM</sub>	Forward current surge peak	600	mA		
T <sub>J</sub>	Junction Temperature	125	°C		
T <sub>STG</sub>	Storage Temperature Range	-65 to +125	°C		
Symbol	Parameter	Min	Typ	Max	Unit
V <sub>F</sub>	Forward Voltage (I <sub>F</sub> =0.1mA)	-	-	240	mV
	Forward Voltage (I <sub>F</sub> =1.0mA)	-	-	320	
	Forward Voltage (I <sub>F</sub> =10mA)	-	-	400	
	Forward Voltage (I <sub>F</sub> =30mA)	-	-	500	
	Forward Voltage (I <sub>F</sub> =100mA)	-	-	1000	
I <sub>R</sub>	Reverse Current (V <sub>R</sub> =25V)	-	-	2.0	uA

## Typical Characteristics



## Package Dimension

### SOT-23







Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
<b>A</b>	2.80	3.04	0.1102	0.1197
<b>B</b>	1.20	1.40	0.0472	0.0551
<b>C</b>	0.89	1.11	0.0350	0.0440
<b>D</b>	0.37	0.50	0.0150	0.0200
<b>G</b>	1.78	2.04	0.0701	0.0807
<b>H</b>	0.013	0.100	0.0005	0.0040
<b>J</b>	0.085	0.177	0.0034	0.0070
<b>K</b>	0.35	0.69	0.0140	0.0285
<b>L</b>	0.89	1.02	0.0350	0.0401
<b>S</b>	2.10	2.64	0.0830	0.1039
<b>V</b>	0.45	0.60	0.0177	0.0236




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