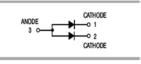
Surface Mount Schottky Barrier Diode





Features:

- · Low Forward Voltage Drop
- Fast Switching
- · Ultra-Small Surface Mount Package
- PN Junction Guard Ring For Transient and ESD Protection





SOT-523

Applications:

Schottky barrier diodes

Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage Working peak DC reverse voltage	Vrrm Vrms Vr	30	V
Forward continuous voltage	lF	200	mA
Repetitive peak forward voltage	IFRM	300	mA
Non-repetitive peak forward surge current @t<1.0s	Іғѕм	600	mA
Power dissipation	PD	150	mW
Thermal resistance, junction to ambient	RθJA	833	°C/W
Junction and storage temperature	T _j , Tstg	-65 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

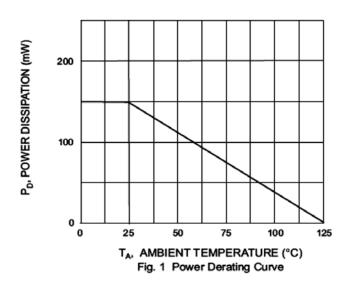
Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	IR = 100μA	30	-	V
Leakage current	lr	VR = 25V	-	2	μA
Forward voltage	VF	IF = 0.1mA IF = 1mA IF = 10mA IF = 30mA IF = 100mA	-	240 320 400 500 1,000	mV
Typical total capacitance	Ст	V _R = 1V, f=1MHz	-	10	pF
Reverse recovery time	trr	I _F = I _R = 10mA I _R = 0.1mA, R _L = 100Ω	-	5	ns

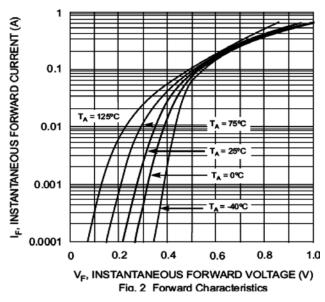


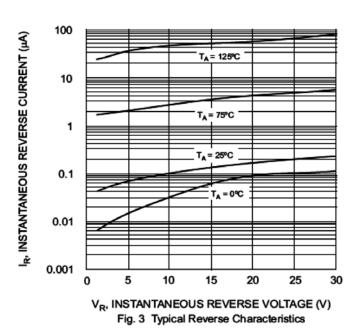
Surface Mount Schottky Barrier Diode

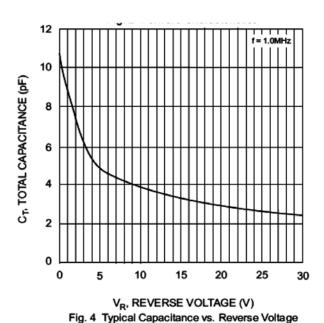


Typical Characteristics @ TA = 25°C unless otherwise specified





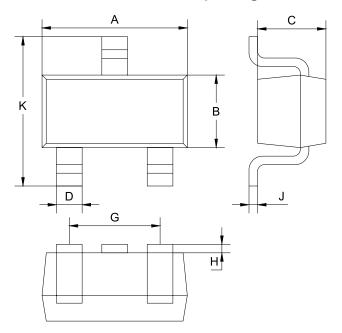




Surface Mount Schottky Barrier Diode

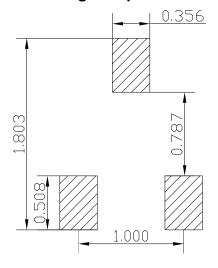


Plastic surface mounted package



SOT-523		
Dim	Min	Max
Α	1.5	1.7
В	0.75	0.85
С	0.6	0.8
D	0.15	0.3
G	0.9	1.1
Н	0.02	0.1
J	0.1Typical	
K	1.45	1.75
All Dimensions in mm		

Soldering Footprint



Package Information

Device	Package	Shipping
BAT54AT-7-F	SOD-23	3,000 / Tape & Reel

Part Number Table

Unit: mm

Description	Part Number
Surface Mount Schottky Barrier Diode	BAT54AT-7-F

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