

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode



SOD 523



Cathode

Maximum Ratings (TA=25 °C unless otherwise noted)

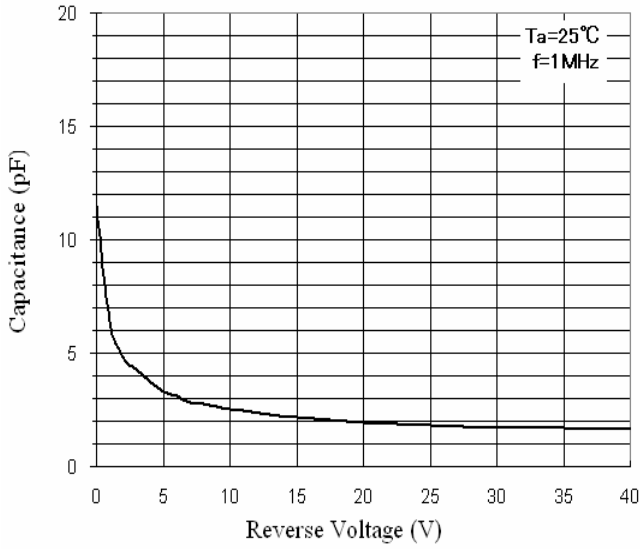
Parameter	Symbol	Value	Units
Power Dissipation	PD	200	mW
Repetitive Peak Reverse Voltage	VRRM	30	V
Maximum DC Blocking Voltage	VR	30	V
Average Forward Rectified Current	IF(AV)	200	mA
Peak Forward Surge Current	IFSM	4	A
Operating Junction Temperature	TJ	+125	°C
Storage Temperature Range	TSTG	-65 to +125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

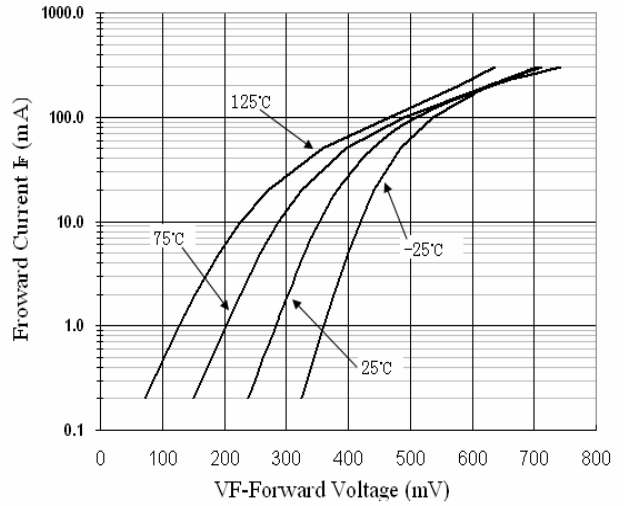
Parameter	Symbol	Test Condition	Limits		Unit
			Min	Max	
Breakdown Voltage	BV	IR=100µA	30		V
Reverse Leakage Current	IR	VR=25V		500	nA
Forward Voltage BAT42T BAT43T BAT42T, BAT43T	VF	IF=10mA	0.26	0.40	V
		IF=50mA		0.65	
		IF=2mA		0.33	
		IF=15mA		0.45	
		IF=200mA		1.00	
Reverse Recovery Time	TRR	IF=IR=10mA RL=100Ω IRR=1mA	5 (Typical)		nS
Capacitance	C	VR=1V, f=1MHZ	7 (Typical)		pF

Typical Characteristics

Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

