

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- High Conductance
- Very Low Forward Voltage Drop
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

• Operating Junction Temperature Range: -55°C to 125°C

• Storage Temperature Range: -55°C to 150°C

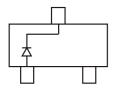
• Typical Thermal Resistance: 286°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
BAT750	K77	40V	28V	40V

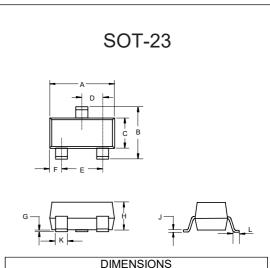
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	750mA			
Non-Repetitive Peak Forward Surge Current	I _{FSM}	5.5A			t<1s
Power Dissipation	P _d	350mW			T _A = 25°C
		Min	Тур	Max	
Forward Voltage	V _F		0.32V 0.36V 0.41V 0.45V 0.48V	0.34V 0.36V 0.39V 0.44V 0.49V 0.54V 0.65V	I _F =100mA I _F =250mA I _F =500mA I _F =750mA I _F =1000mA
Reverse Current	I _R		60µA	100µA	V _R = 30V
Reverse Breakdown	V _{(BR)R}	40V	45V		I _R =300μA
Junction Capacitance	Сл		175pF 25pF		f=1.0MHz, V _R =0V f=1.0MHz, V _R =25V

Internal Structure

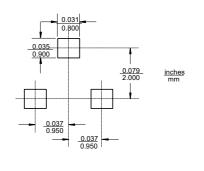


350mW Schottky Barrier Diode 40 Volts



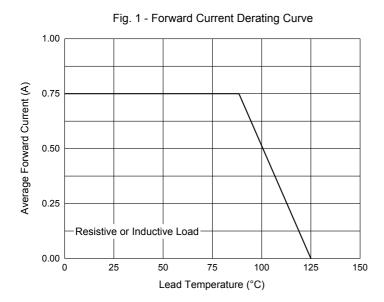
	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

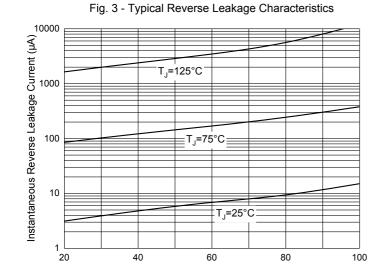
Suggested Solder Pad Layout



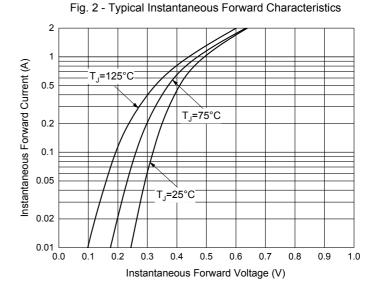


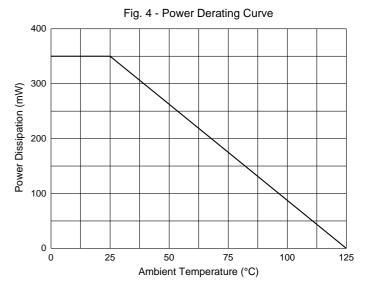
Curve Characteristics





Percent of Rated Peak Reverse Voltage (%)







Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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