

## **Features**

- AEC-Q101 Qualified
- · High Breakdown Voltage
- Low Turn-on Voltage
- Guard Ring Construction For Transient Protection
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note 2): 500°C/W Junction to Ambient Air

Pa	MCC art Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
ВА	T46WHE3	S9	100V	70V	100V

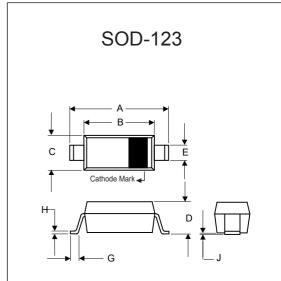
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward DC Current	I <sub>F</sub>	150mA	
Average Rectified Output Current	I <sub>O</sub>	75mA	
Repetitive Peak Forward Current	I <sub>FRM</sub>	350mA	t <sub>p</sub> <1.0s, Duty Cycle<50%
Forward Surge Forward Current	I <sub>FSM</sub>	750mA	t <sub>p</sub> =10ms
Power Dissipation	P <sub>D</sub>	200mW	
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	100V(Min)	I <sub>R</sub> =100μAdc
Forward Voltage	V <sub>F</sub>	0.25V(Max) 0.45V(Max) 1.0V(Max)	I <sub>F</sub> =0.1mA I <sub>F</sub> =10mA I <sub>F</sub> =250mA
Leakage Current	I <sub>R</sub>	0.5μA(Max) 1μA(Max) 2μA(Max)	V <sub>R</sub> =10V V <sub>R</sub> =50V V <sub>R</sub> =75V
Typical Junction Capacitance	Ст	18pF(Typ) 8pF(Typ)	V <sub>R</sub> =0, f=1.0MHz V <sub>R</sub> =2V, f=1.0MHz

#### Note:

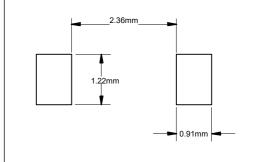
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Valid provided that electrodes are kept at ambient temperature.

# 200mW Schottky Diode 100 Volts



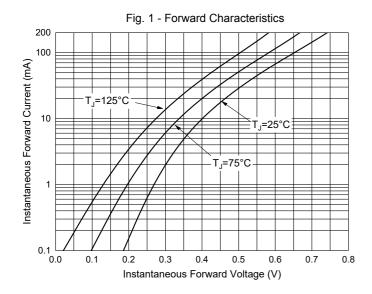
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.140	0.152	3.55	3.85			
В	0.100	0.112	2.55	2.85			
С	0.055	0.071	1.40	1.80			
D		0.053		1.35			
E	0.018	0.026	0.45	0.65			
G	0.006		0.15				
Н		0.010		0.25			
J		0.006		0.15			

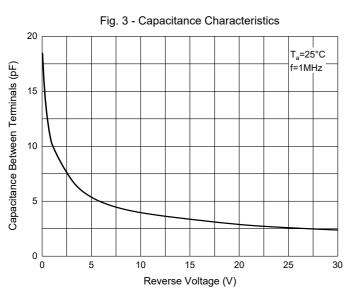
#### Suggested Solder Pad Layout

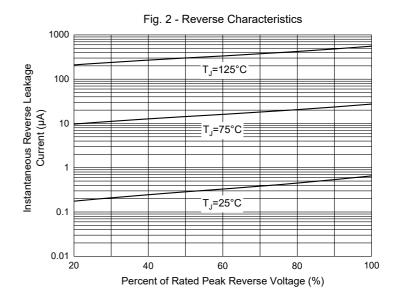


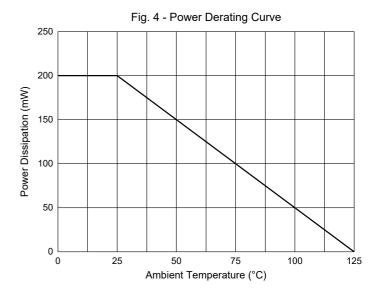


## **Curve Characteristics**











# **Ordering Information**

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

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