

### **Features**

- Halogen Free. "Green" Device (Note 1)
- · High Reliability
- Low Reverse Current And Low Forward Voltage.
- · Small Surface Mount Type
- Lead Free Finish/RoHS Compliant ("P"Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

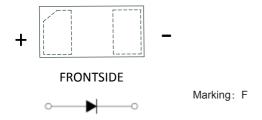
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Thermal Resistance :1000°C/W Junction to Ambient

Parameter	Symbol	Rating	Units
Repetitive Peak Reverse Voltage	V <sub>R</sub>	30	Vdc
RMS Reverse Voltage	V <sub>R(RMS)</sub>	21	Vdc
Mean Rectifying Current	Io	100	mAdc
Non-Repetitive Peak forward Surge Current@t=8.3ms , half sine wave	I <sub>FSM</sub>	500	mAdc
Power Dissipation	P <sub>d</sub>	100	mW

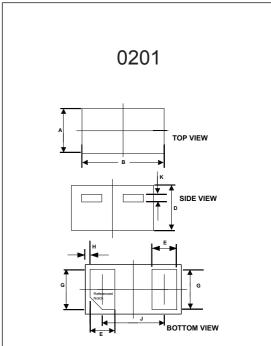
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units
Reverse Breakdown Voltage (I <sub>R</sub> =50µA)	V <sub>(BR)</sub>	30			Vdc
Forward Voltage (I <sub>F</sub> =10mAdc) (I <sub>F</sub> =100mAdc)	V <sub>F</sub>	 	0.49	0.38 0.53	Vdc
Reverse Current (V <sub>R</sub> =10Vdc) (V <sub>R</sub> =30Vdc)	I <sub>R</sub>		 0.8	7 50	μAdc

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

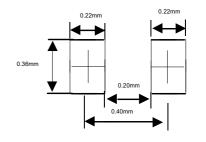


# 100 mA Schottky Barrier Diode 30 Volts



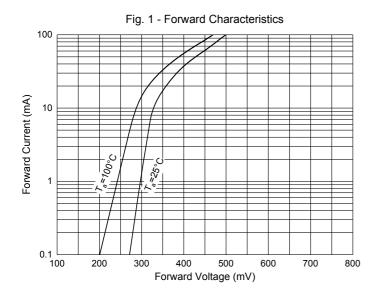
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.011	0.015	0.270	0.370	
В	0.022	0.026	0.570	0.670	
D	0.011	0.013	0.275	0.340	
E	0.005	0.008	0.125	0.195	
G	0.009	0.012	0.225	0.295	
Н	0.0	001	0.0	030	TYP.
J	0.014	0.017	0.365	0.435	
K	0.002		0.050		TYP.

### SUGGESTED SOLDER PAD LAYOUT





# **Curve Characteristics**



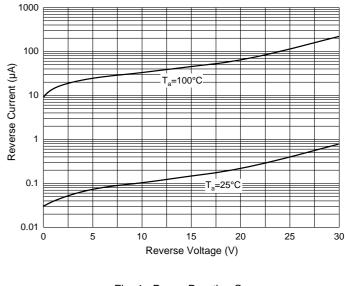
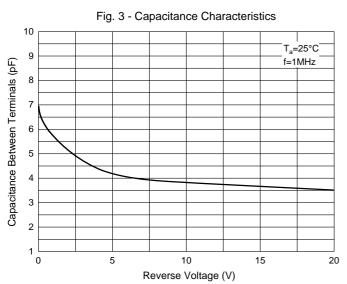
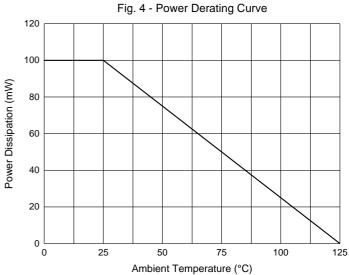


Fig. 2 - Reverse Characteristics







# **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel:10Kpcs/Reel

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