

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

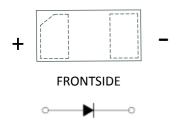
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Thermal Resistance :1000°C/W Junction to Ambient

Parameter	Symbol	Rating	Units
Repetitive Peak Reverse Voltage	V _R	30	Vdc
RMS Reverse Voltage	V _{R(RMS)}	21	Vdc
Mean Rectifying Current	Ι _ο	100	mAdc
Non-Repetitive Peak forward Surge Current@t=8.3ms , half sine wave	I _{FSM}	500	mAdc
Power Dissipation	P _d	100	mW

Electrical Characteristics @ 25°C Unless Otherwise Specified

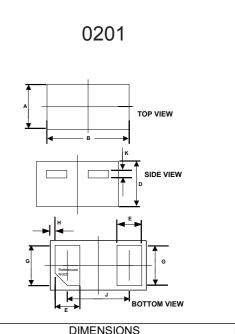
Parameter	Symbol	Min	Тур	Max	Units
Reverse Breakdown Voltage (I _R =50µA)	V _(BR)	30			Vdc
Forward Voltage (I _F =10mAdc) (I _F =100mAdc)	V _F		 0.49	0.38 0.53	Vdc
Reverse Current (V_R =10Vdc) (V_R =30Vdc)	I _R		 0.8	7 50	µAdc

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



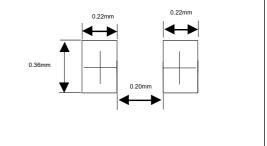
Marking: F

100 mA Schottky Barrier Diode 30 Volts



	DIMENSIONS				
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
А	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	
Е	0.005	0.008	0.125	0.195	
G	0.009	0.012	0.225	0.295	
Н	0.001		0.030		TYP.
J	0.014	0.017	0.365	0.435	
К	0.002		0.050		TYP.

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

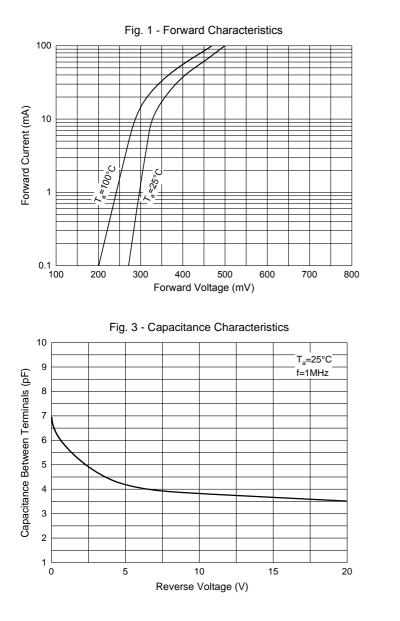


Fig. 2 - Reverse Characteristics 1000 100 Reverse Current (µA) T_a=100[°]C 10 1 0.1 T_=25°C 0.01 0 5 10 15 20 25 30 Reverse Voltage (V) Fig. 4 - Power Derating Curve 120 100 Power Dissipation (mW) 80 60 40 20 0 ∟ 0 25 50 75 100 125 Ambient Temperature (°C)



Ordering Information

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

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