

Features

- · High Speed Switching Diode
- For General Purpose Switching Applications
- · Surface Mount Package
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

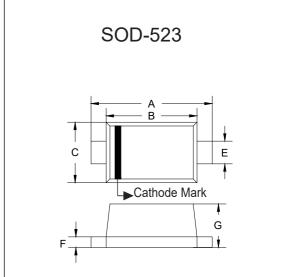
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Thermal Resistance: 667°C/W Junction to Ambient

MCC Part Number	Device Marking			
1SS387	G			

Parameter	Symbol	Value	
Peak Repetitive Reverse Voltage	V_{RRM}	85V	
Reverse Voltage	V _R	80V	
Average Forward Current	I _{F(AV)}	100mA	
Peak Forward Surge Current (t=10ms)	I _{FSM}	1A	
Power Dissipation	P _D	150mW	

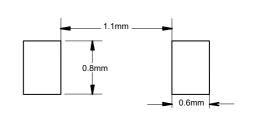
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

150mW Switching Diode



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.043	0.051	1.10	1.30		
С	0.030	0.033	0.75	0.85		
Е	0.010	0.014	0.25	0.35		
F	0.003	0.008	0.08	0.20		
G	0.020	0.026	0.50	0.65		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage		I _F =1mA		0.62		V
	V _F	I _F =10mA		0.75		V
		I _F =100mA			1.2	V
Reverse Current	I _R	V _R =30V			0.1	μA
		V _R =80V			0.5	μA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			3	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			4	ns



Curve Characteristics

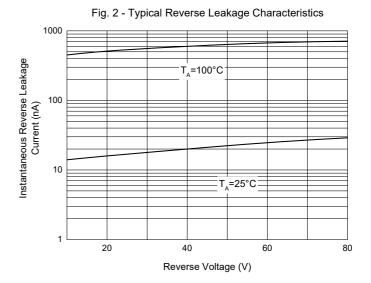
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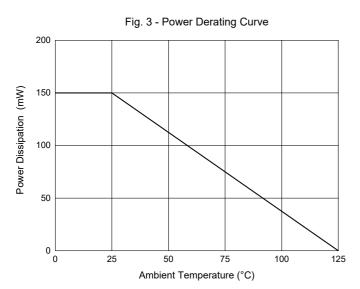
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Instantaneous Forward Voltage (V)

Fig. 1 - Typical Instantaneous Forward Characteristics





1.2



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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