

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 Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

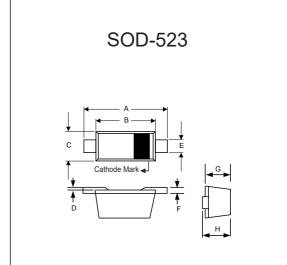
Maximum Ratings

- 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		

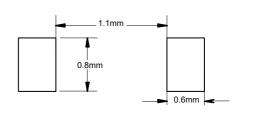
Parameter	Symbol	Value
Peak Repetitive Reverse Voltage	V _{RRM}	85V
Reverse Voltage	V_R	80V
Average Forward Current	I _{F(AV)}	100mA
Peak Forward Surge Current (t=10ms)	I _{FSM}	1A
Power Dissipation	P _D	150mW

150mW Switching Diode



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
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	
D	0.000	0.003	0.00	0.07	
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	
Н	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										
		I _F =1mA		0.62		V										
Forward Voltage	V _F	I _F =10mA		0.75		V										
		I _F =100mA			1.2	V										
Reverse Current	V _R =30V			0.1	μA											
Reverse Current	I _R	'R	' R	'R	'R	'R	'R	'R	'R	'R	'R	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

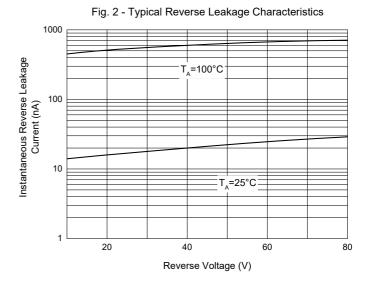
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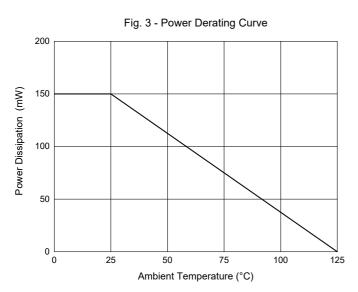
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Instantaneous Forward Voltage (V)

Fig. 1 - Typical Instantaneous Forward Characteristics





1.2



Ordering Information

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

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

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