

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

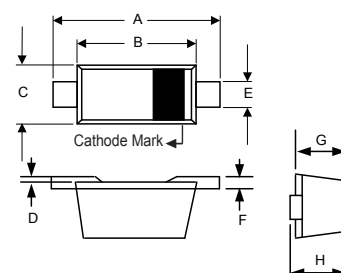
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Thermal Resistance: 667°C/W Junction to Ambient

MCC Part Number	Device Marking
1SS388	S3

Parameter	Symbol	Value
Maximum Peak Reverse Voltage	V_{RM}	45V
Reverse Voltage	V_R	40V
Average Forward Current	$I_{F(AV)}$	100mA
Peak Forward Surge Current	I_{FSM}	1A
Power Dissipation	P_D	150mW

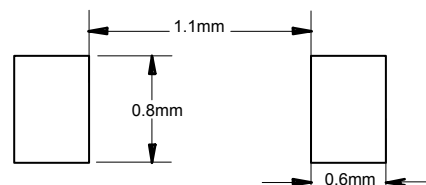
45 Volts Switching Diode

SOD-523



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.059	0.067	1.50	1.70	
B	0.043	0.051	1.10	1.30	
C	0.030	0.033	0.75	0.85	
D	0.001	0.003	0.01	0.07	
E	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.028	0.50	0.70	
H	0.020	0.031	0.51	0.77	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward Voltage	V_F	$I_F=1\text{mA}$		0.28		V
		$I_F=10\text{mA}$		0.36		V
		$I_F=50\text{mA}$		0.54	0.6	V
Reverse Current	I_R	$V_R=10\text{V}$			5	μA
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$		18	25	pF

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

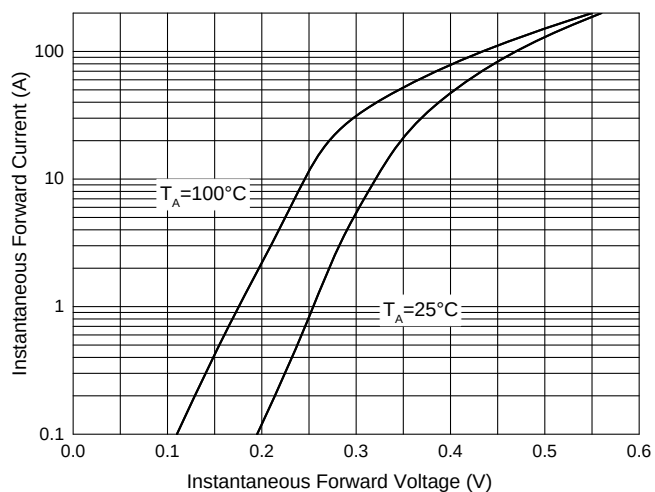


Fig. 2 - Typical Reverse Leakage Characteristics

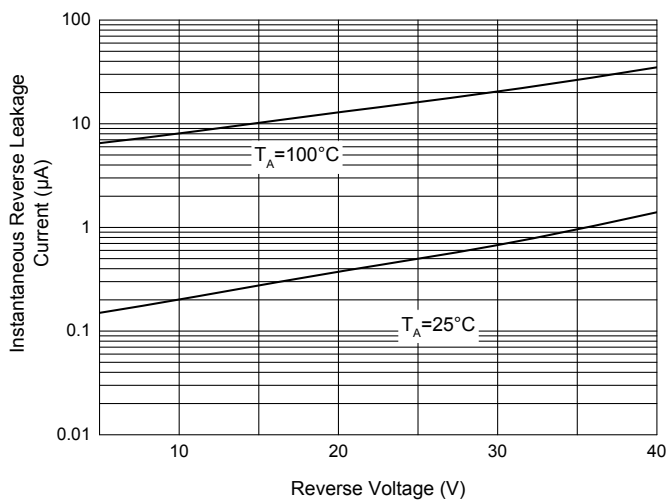
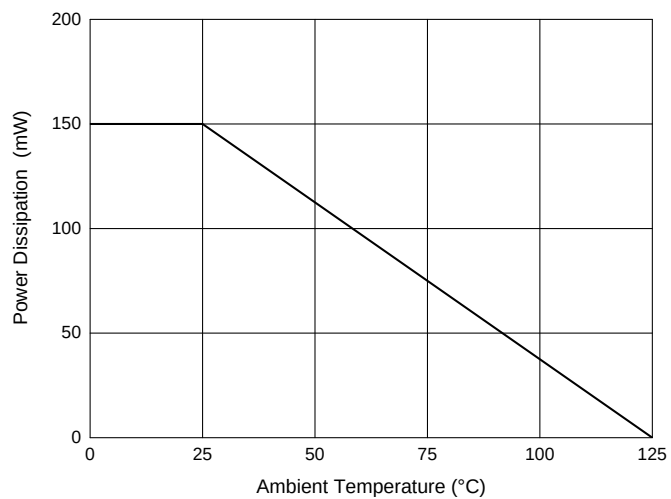


Fig. 3 - Power Derating Curve



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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