

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)

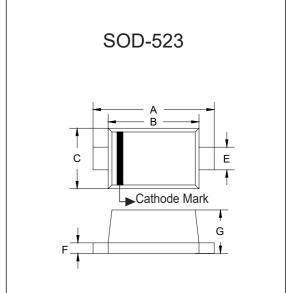
Maximum Ratings

- 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		
1SS388	S3		

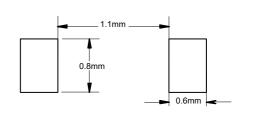
Parameter	Symbol	Value
Maximum Peak Reverse Voltage	V_{RM}	45V
Reverse Voltage	V _R	40V
Average Forward Current	I _{F(AV)}	100mA
Peak Forward Surge Current	I _{FSM}	1A
Power Dissipation	P _D	150mW

45 Volts Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	INOTE
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	
E	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
		I _F =1mA		0.28		V
Forward Voltage	V _F	I _F =10mA		0.36		V
		I _F =50mA		0.54	0.6	V
Reverse Current	I _R	V _R =10V			5	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		18	25	pF



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

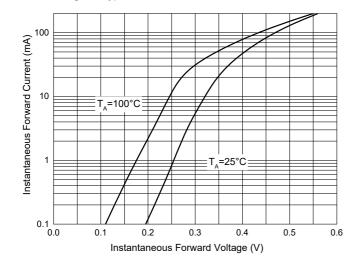


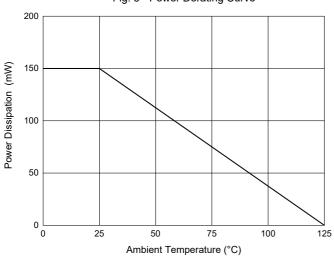
Fig. 2 - Typical Reverse Leakage Characteristics

Tonuer (RP)

Tonuer

Reverse Voltage (V)

Fig. 3 - Power Derating Curve





Ordering Information

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

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