

Features

- · High Speed Switching Diode
- Surface Mount
- · 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

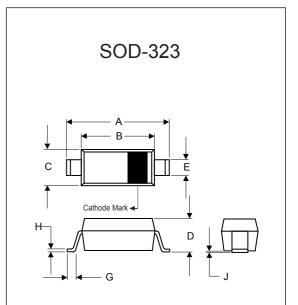
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking		
1SS404	S51		

Parameter	Symbol	Value
Maximum Peak Reverse Voltage	V_{RM}	25V
DC Reverse Voltage	V _R	20V
Maximum Peak Forward Current	I _{FM}	700mA
Average Forward Current	I _{F(AV)}	300mA
Power Dissipation (N[& 1)	P _D	200mW

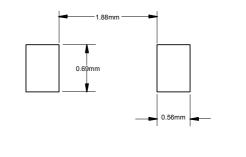
Notes: 1. When Mounted on a Glass Epoxy Board PCB: 20mm x 20mm, with Copper Pad 4mm x 4mm.

High Speed Switching Diode



DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
ווועו	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	0.045	0.053	1.15	1.35		
D	0.031	0.045	0.80	1.15		
E	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
		I _F =1mA		0.16		V
Forward Voltage	V _F	I _F =10mA		0.22		V
		I _F =300mA		0.38		V
Reverse Current	I _R	V _R =20V			50	μΑ
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			46	pF



Curve Characteristics

0.1 - 0.0

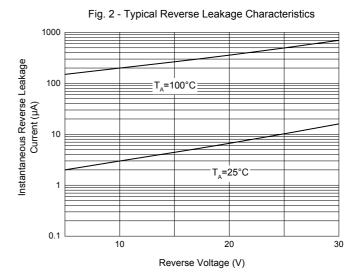
Fig. 1 - Typical Instantaneous Forward Characteristics 1000 Instantaneous Forward Current (mA) 100 T_A=100°C 10 T_A=25°C

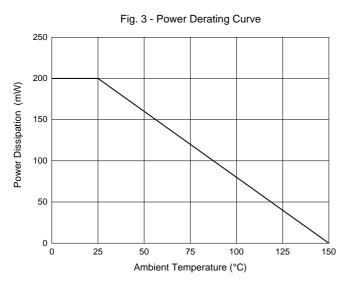
0.3 Instantaneous Forward Voltage (V)

0.2

0.4

0.6







Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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

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