

Features

- Low Leakage Current
- · 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)

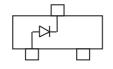
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

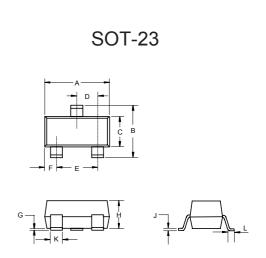
MCC Part Number	Device Marking			
1SS193	F3			

Parameter	Symbol	Value
Reverse Voltage	V_R	80V
Average Forward Current	I _{F(AV)}	100mA
Power Dissipation	P _D	150mW

Internal Structure

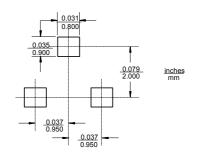


150mW Switching Diodes



DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.014	0.020	0.35	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout



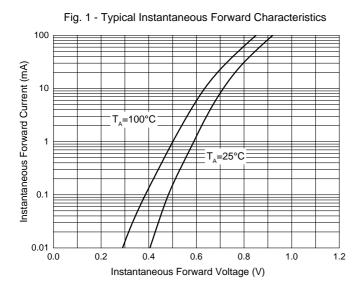


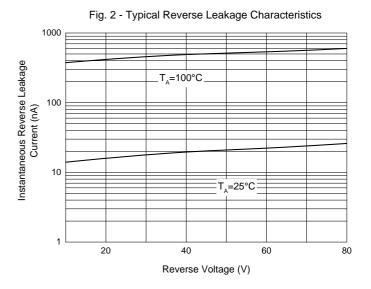
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

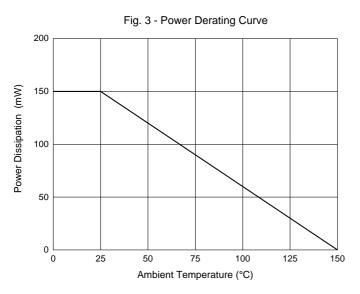
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	80			V
Forward Voltage	V _F	I _F =100mA			1.2	V
Reverse Current	I _R	V _R =80V			0.5	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			3	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times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



Curve Characteristics









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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