

Features

- · Low Forward Voltage
- · Low Leakage Current
- · 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 +150°C
- Thermal Resistance: 667°C/W Junction to Ambient

MCC Part Number	Device Marking		
1SS184	В3		

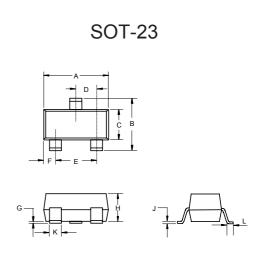
Parameter	Symbol	Value
Non-Repetitive Peak Reverse Voltage	V_{RM}	85V
Reverse Voltage	V_R	80V
Peak Forward Current	I _{FM}	300mA
Average Forward Current	I _{F(AV)}	100mA
Power Dissipation	P _D	150mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

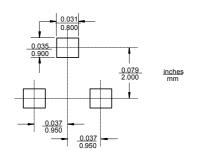


150mW High Speed Switching Diodes 80 Volt



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
C	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	
Η	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



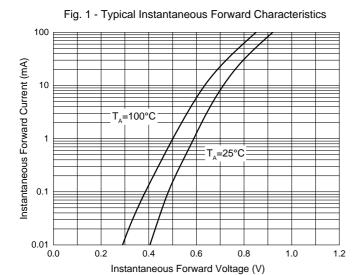


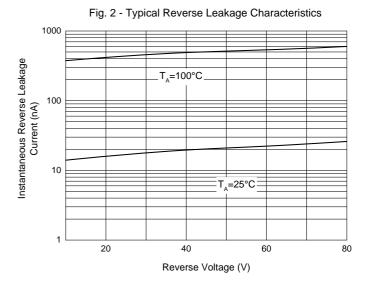
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

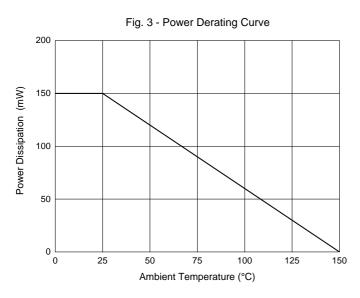
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	80			V
Forward Voltage	V _F	I _F =1mA		0.6		V
		I _F =10mA		0.72		V
		I _F =100mA		0.9	1.2	V
Reverse Current I _R		V _R =30V			0.1	μA
	V _R =80V			0.5	μA	
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		0.9	3	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$		1.6	4	ns



Curve Characteristics









Ordering Information

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

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