

Features

- High Speed Switching Diode
- High Reliability With High Surge Current Handing Capability
- 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

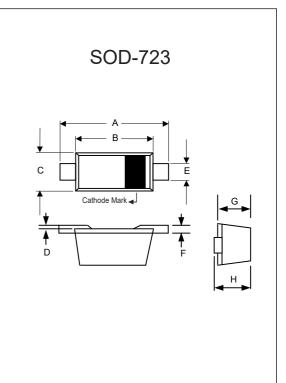
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1000°C/W Junction to Ambient

MCC Part Number	Device Marking		
1SS400G	7		

Parameter	Symbol	Value
Maximum Peak Reverse Voltage	V _{RM}	90V
DC Reverse Voltage	V _R	80V
Peak Forward Current	I _{FM}	225mA
Average Forward Current	I _{F(AV)}	100mA
Peak Forward Surge Current (t=1s)	I _{FSM}	0.5A
Power Dissipation	P _D	100mW

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

90Volts High Speed Switching Diodes



DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.051	0.059	1.30	1.50	
В	0.035	0.043	0.90	1.10	
С	0.022	0.026	0.55	0.65	
D	0.001	0.003	0.01	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.023	0.52	0.58	
Н	0.021	0.026	0.53	0.65	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V _F	I _F =100mA			1.2	V
Reverse Current	I _R	V _R =80V			5	μA
Junction Capacitance	CJ	V _R = 5V, f = 1MHz			3	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R ,R _L =100Ω			4	ns



Curve Characteristics

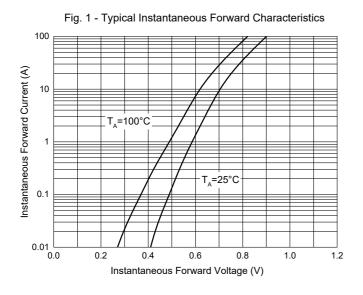
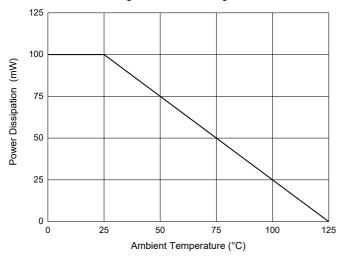
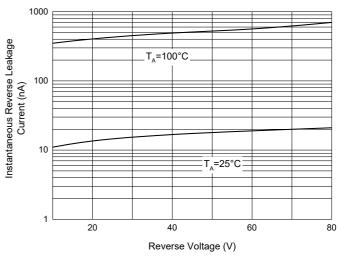


Fig. 3 - Power Derating Curve









Ordering Information

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

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