

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- High speed switching diode
- Small Surface Mount Type
- High Reliability with High Surge Current Handing Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Case: SOD-523
- Marking: A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25°C Unless Otherwise Specified

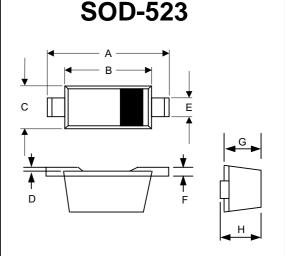
DC Reverse Voltage	V _R	80	V
Peak	V _{RM}	90	V
Reverse Voltage	VRM	90	v
Average Forward	L.	100	mA
Rectified Current	Ι _Ο	100	ШA
Peak Forward Current	I _{FM}	225	mA
Surge Current(1s)	I surge	500	mA
Total Power Dissipation	P _{TOT}	150	mW
Storage Temperature Range	T _{STG}	-55 to +150	°C
Junction Temperature	Tj	150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Instantaneous Forward Voltage	V_{F}	1.20V	I _{FM} = 100mA; T _J = 25℃
Maximum Average Reverse Current	I _R	0.1µA	V_R =80Volts T_J = 25°C
Capacitance between Terminals	Ст	3.0pF	Measured at 1.0MHz, V _R =0.5V
Reverse Recovery Time	T _{rr}	4nS	l _F =10mA V _R = 6V,R _L =100 Ω

1SS400

90Volts High Speed Switching Diodes



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.059	.067	1.50	1.70	
В	.043	.051	1.10	1.30	
С	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
Н	.020	.031	0.51	0.77	

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Typical Characteristics

100 Forward Current (mA) 10 1 T_a=100°C 0.1 T_a=25°C≣ 0.01 0.2 0.6 0.8 . 0.0 0.4 1.0 Forward Voltage (V)

Fig. 1 - Forward Characteristics

Fig. 2 - Reverse Characteristics

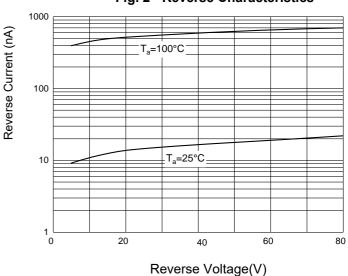


Fig. 3 - Power Derating Curve

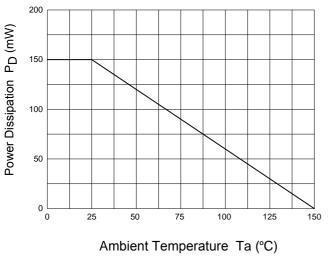
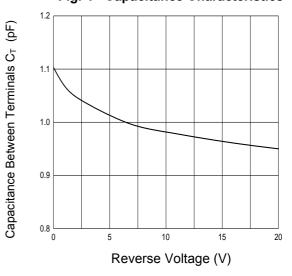


Fig. 4 - Capacitance Characteristics



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Revision: G