



1SS388

Features

- Halogen free available upon request by adding suffix "-HF"
- High speed switching diode
- Surface mount package
- For general purpose switching applications
- Marking: S3
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

**45 Volts
Switching Diode**

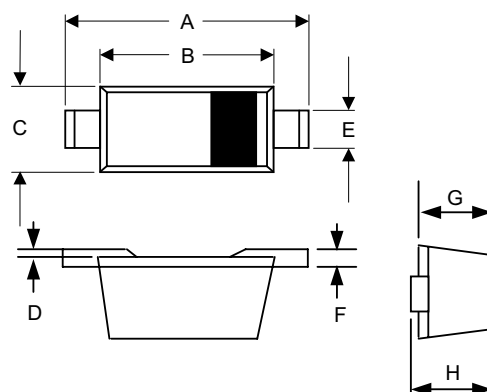
Mechanical Data

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25°C Unless Otherwise Specified

CHARACTERISTICS	SYMBOL	RATING	UNIT
Maximum Reverse Voltage	V _{RM}	45	V
Reverse Voltage	V _R	40	V
Average Forward Current	I _O	100	mA
Peak forward surge current	I _{FSM}	1	A
Power Dissipation	P _D	150	mW
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55~125	°C

SOD-523



Electrical Characteristics @ 25°C Unless Otherwise Specified

CHARACTERISTICS	SYMBOL	Typ	Max	Unit	Conditions
Forward Voltage	V _F	0.28		V	I _F =1mA
		0.36			I _F =10mA
		0.54	0.60		I _F =50mA
Reverse Current	I _R		5	uA	V _R =10V
Total Capacitance	C _T	18	25	pF	V _R =0V, f=1MHZ

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.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	
H	.020	.031	0.51	0.77	

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;8Kpcs/Reel

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

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Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com