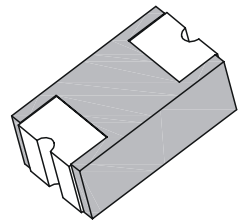
1.0A Low Profile Chip Schottky Rectifier

Features

- Low profile with SMD package
- Low power loss , High efficiency
- High current capability, Low voltage drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS compliant



C0805
(SOD-323)

Mechanical Data

Case:	0805 SMD package, Molded plastic body
Terminals:	Pure Tin plated, solderable per MIL-STD-750, Method 2026
Polarity	Laser cathode band marking
Weight:	0.005 gram

Maximum Ratings *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	TSCD12WS	TSCD14WS	TSCD16WS	Unit	Conditions
	Marking Code	A2	A4	A6		
V_{RRM}	Repetitive Peak Reverse Voltage	20	40	60	V	
V_{DC}	Maximum DC Blocking Voltage	14	28	42	V	
V_{RWM}	Working Peak Reverse Voltage	20	40	60	V	
$I_{F(AV)}$	Forward Rectified Current	1.0			A	SEE FIG.1
I_{FSM}	Non-repetitive Peak Forward Surge Current	10			A	8.3ms single half sine-wave
T_J	Operating Junction temperature range	-55 to +125	-55 to +150		° C	
T_{STG}	Storage Temperature Range	-55 to +150			° C	

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	TSCD12WS	TSCD14WS	TSCD16WS	Unit	Conditions
V_F	Forward Voltage	0.45	0.50	0.65	V	IF= 1.0A(Note1)
$R_{\theta-JL}$	Typical Thermal Resistance	28			° C/W	(Note 2)
$R_{\theta-JA}$		88				
I_R	Reverse Current	200			μA	

NOTES:

1. Pulse test width PW=300usec, 1% duty cycle.
2. Mounted on P.C. board with 0.2 x 0.2"(5.0 x 5.0mm) copper pad areas.

Typical Characteristics Curves

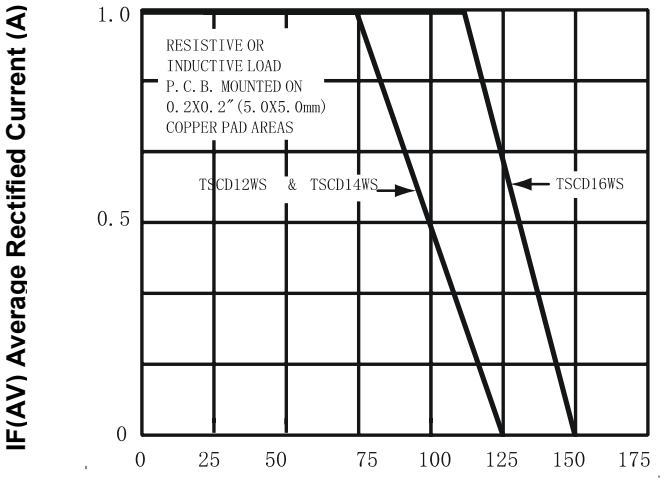


Fig.1- Forward Current Derating Curve

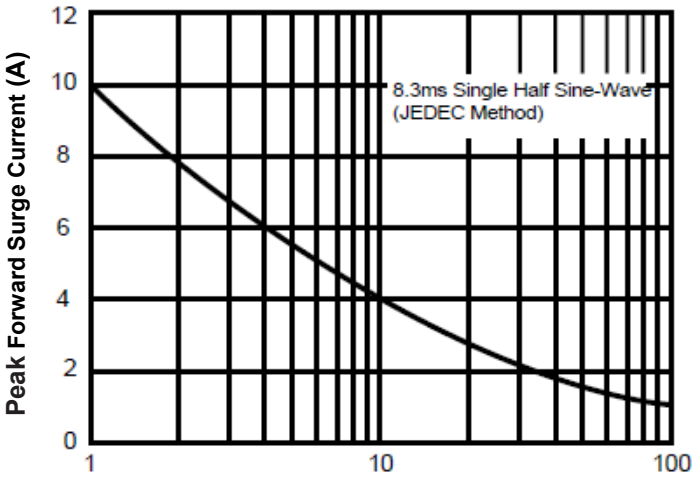


Fig.2-Max. Non-Repetitive Forward Surge Current

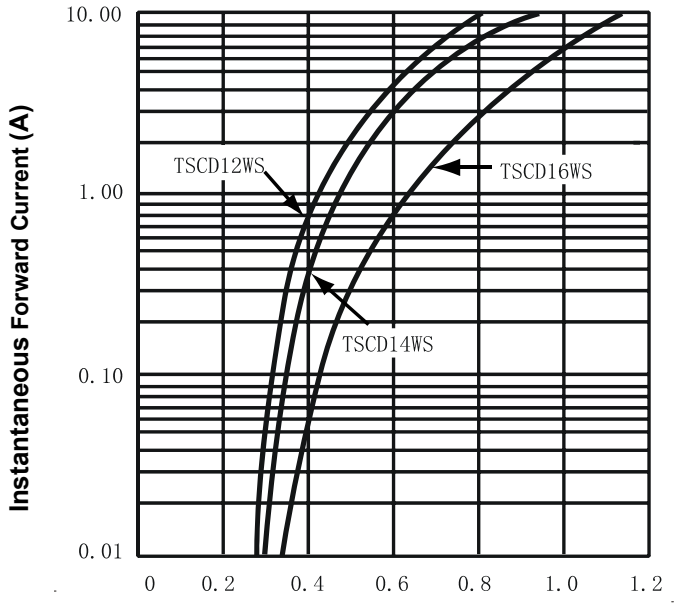


Fig.3- Typical Forward Characteristics

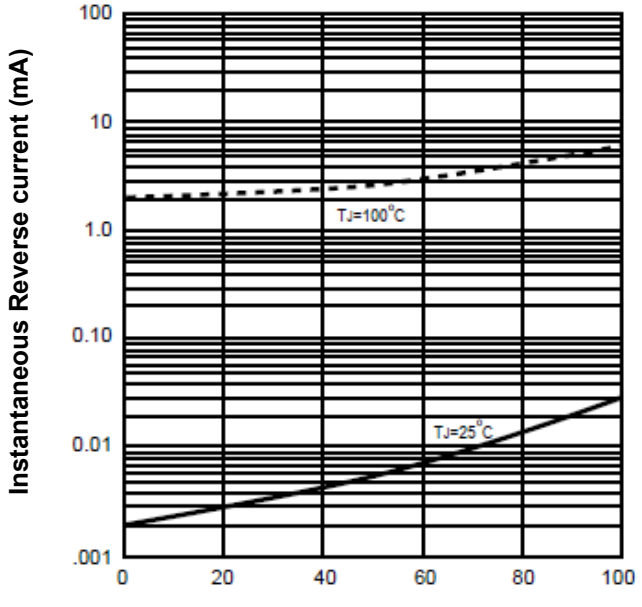


Fig.4- Typical Reverse Characteristics

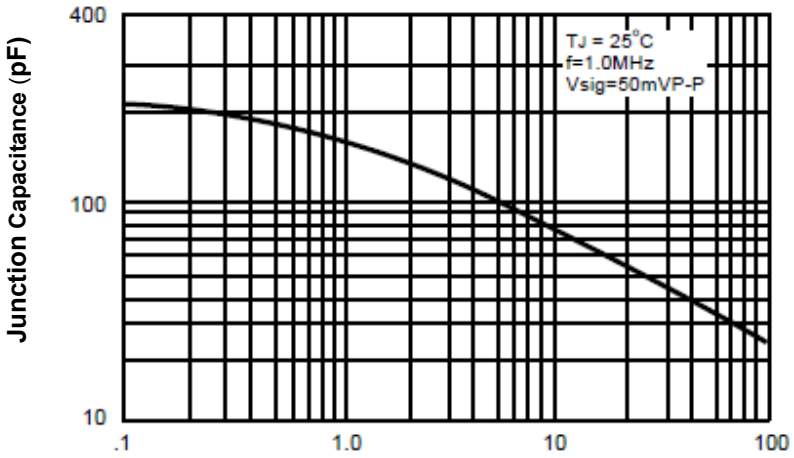
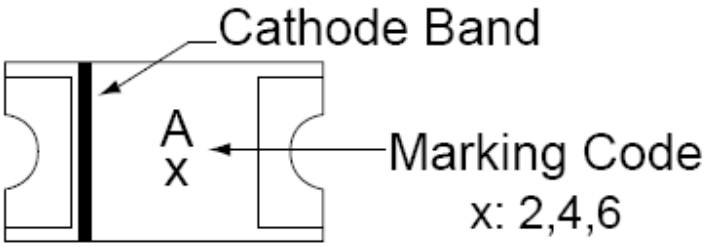


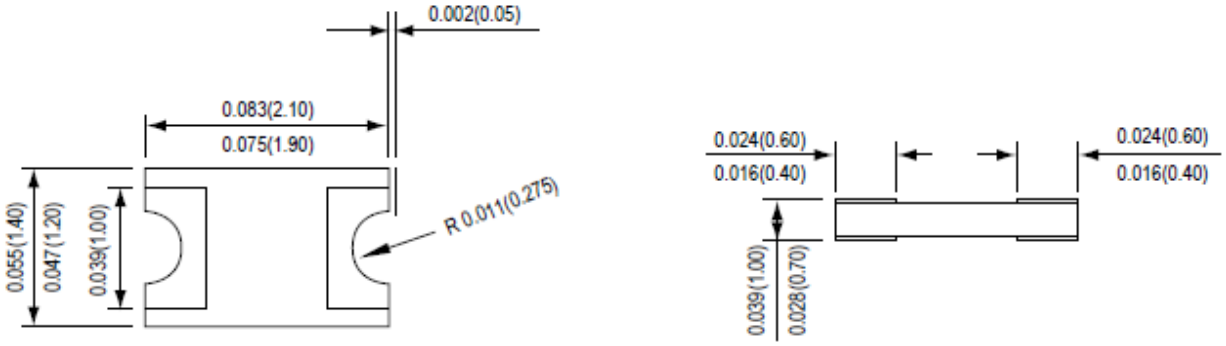
Fig.5- Typical Junction Capacitance

Marking Information:



Dimensions in inch (mm)

C0805
(SOD-323)



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