Data Sheet

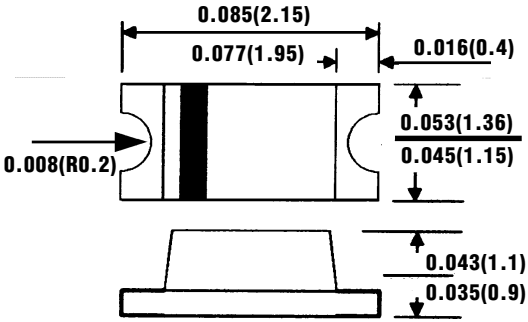
100 mA SURFACE MOUNT HIGH SPEED SWITCHING DIODE

Mechanical Dimensions

FSWS4148



0805(2012)



DIMENSIONS IN INCHES AND MILLIMETERS

Features

- SURFACE MOUNT PACKAGE
- MEETS UL SPECIFICATION 94V-0
- FAST SWITCHING DIODE
- HIGH SURGE CAPABILITY

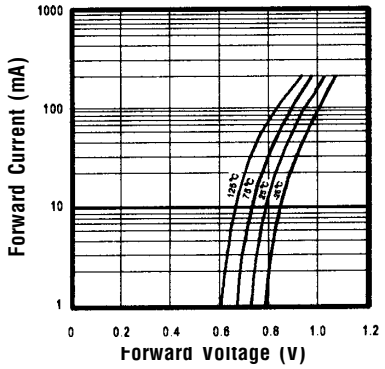
Maximum Ratings	FSWS4148 MIN	TYP	MAX		Units
Peak Repetitive Reverse Voltage...V_{RRM}			100		V
Reverse Voltage...V_R			75		V
Average Forward Rectified Current...$I_{F(AV)}$			150		mA
Peak Forward Surge Current...I_{FSM} T=1us T=1s		4 1			A A
Power Dissipation...P_D			300		mW
Operating & Storage Temperature...T_J, T_{STG}	-55		+125		°C.
Electrical Characteristics @ 25°C.					
Foreward Voltage @ I_F= 100 mA...V_F			1.0		V
DC Reverse Current @ VR = 30V...I_R V_R=20V V_R=75V			25 2.5		nA nA
Typical Junction Capacitance...C_T			3		pF
Reverse Recovery Time V_R=6V, I_F=10mA, R=50 ohms...T_{RR}			4		nS

Data Sheet

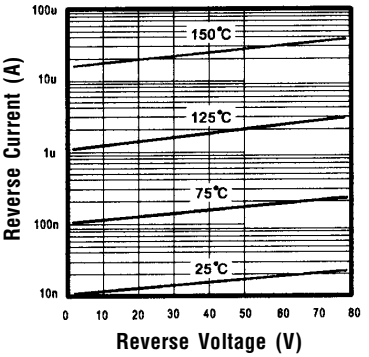
100 mA SURFACE MOUNT HIGH SPEED SWITCHING DIODE

FSWS4148

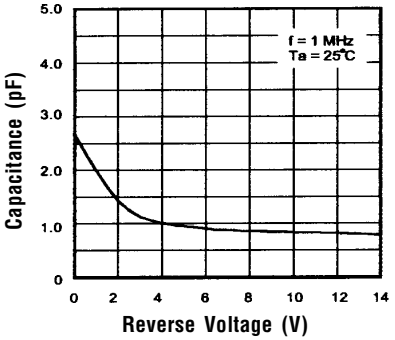
Forward Characteristics



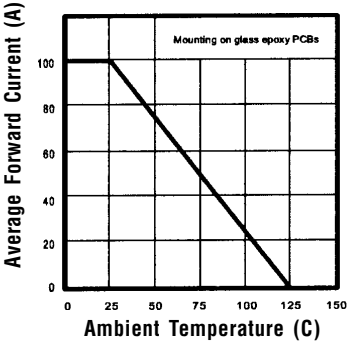
Revese Characteristics



Typical Junction Capacitance



Forward Current Derating Curve



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.