

Surface Mount Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

Features:

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low profile package
- * Built-in strain relief
- * Metal to silicon rectifier , majority carrier conduction
- * Low power loss , High efficiency
- * High current capability
- * High surge capacity
- * For using in low voltage high frequency switching power supply, inverters , free wheeling , and polarity protection applications

**SCHOTTKY BARRIER
RECTIFIERS
2.0 AMPERES
20-100 VOLTS**



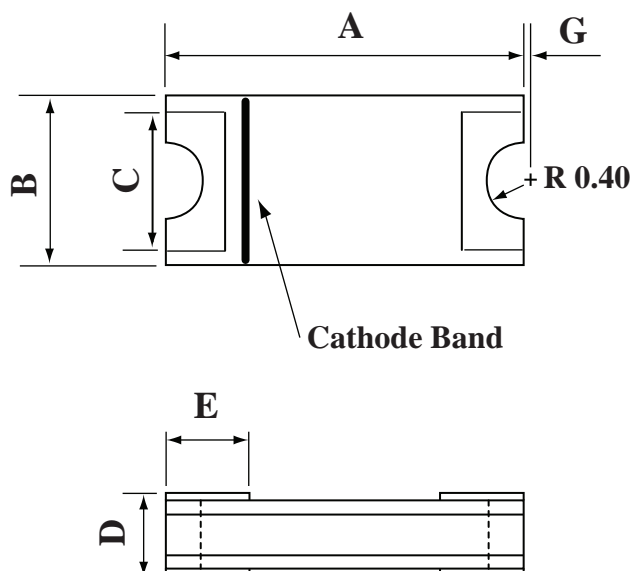
1206

Mechanical Data:

- * Case : Packed with FRP substrate and epoxy underfilled
- * Terminals : Solder plated , solderable per MIL-STD-750, Method 2026
- * Polarity : Laser marking
- * Weight : 0.02 gram

1206 Outline Dimension

Unit:mm



1206		
Dim	Min	Max
A	3.20	3.60
B	1.70	2.10
C	1.60	
D	0.86	1.16
E	0.50	0.90
G	0.05	

Maximum Ratings and Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

Single Phase HalfWave, 60Hz , Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

Characteristics	Symbol	202	203	204	206	210	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	60	100	V
Maximum RMS Voltage	V_{RMS}	20	30	40	60	100	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	60	100	V
Maximum Average Forward Rectified Current See Fig.1	$I_{F(AV)}$	2.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC)	I_{FSM}	40					A
Maximum Instantaneous At 2.0A DC	V_F	0.5		0.7		0.85	V
Maximum DC Reverse Current @Ta = 25°C At Rated DC BlockingVoltage @Ta = 100°C	I_R	0.5 10					mA
Typical Thermal Resistance ²	$R_{\theta JA}$ $R_{\theta JL}$	75 17					°C/W
OperatingTemperature Range	T_J	-50 to +125					°C
StorageTemperature Range	T_{STG}	-65 to +150					°C

Notes: 1.Pulse test width PW=300 usec, 1% duty cycle.

2. Mounted on P.C. board with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

RATING AND CHARACTERISTIC CURVES

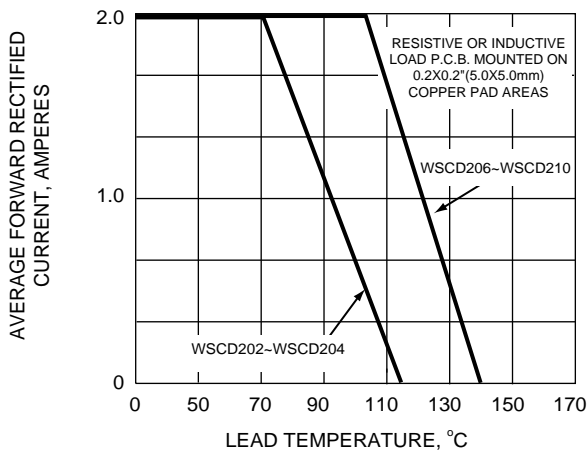


FIG.1 - FORWARD CURRENT DERATING CURVE

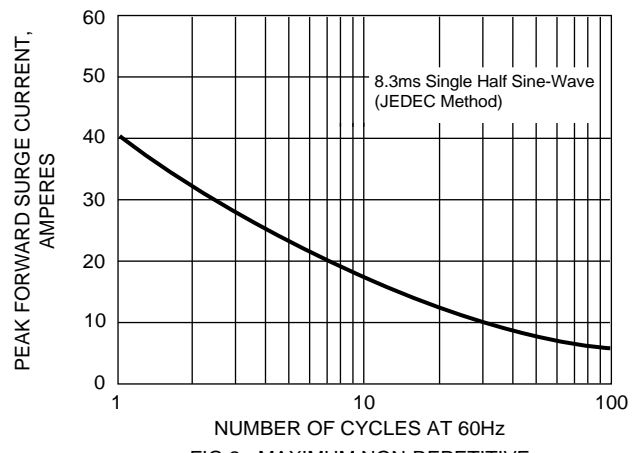


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

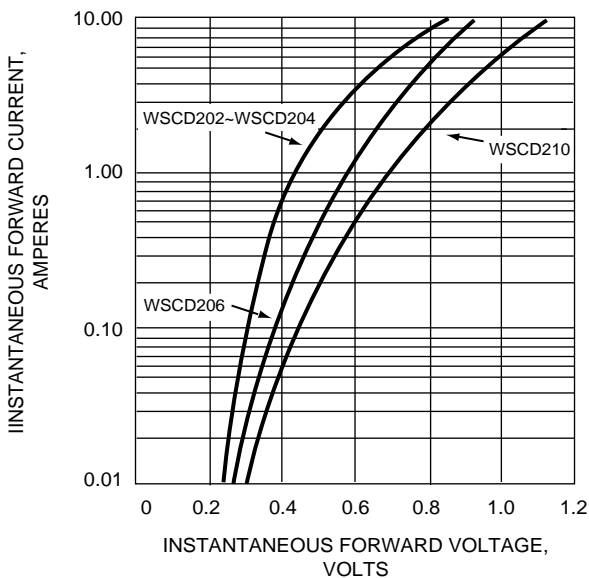


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

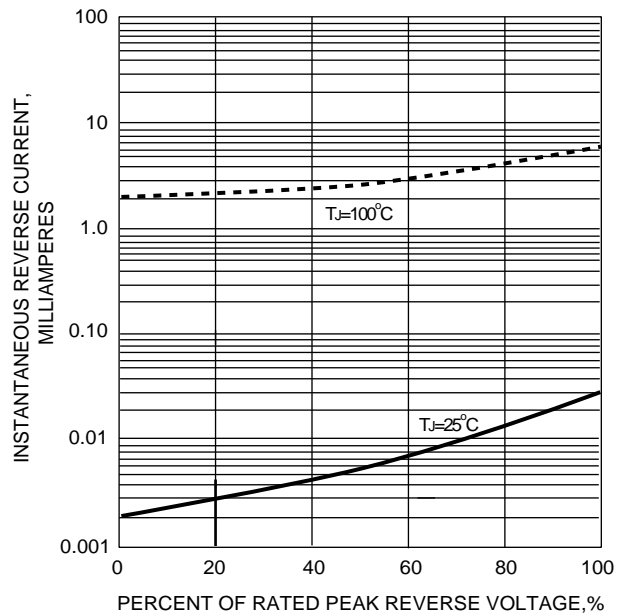


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

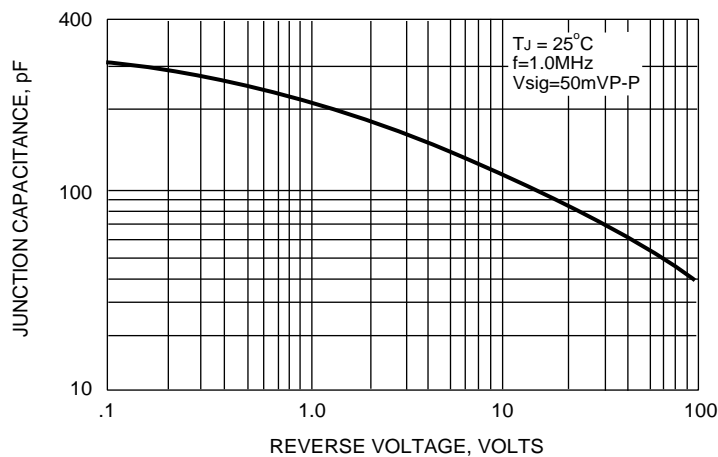


FIG.5 - TYPICAL JUNCTION CAPACITANCE