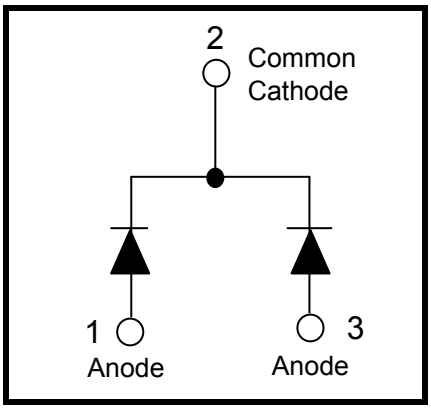
This series uses the Schottky Barrier principle with a platinum barrier metal.
These state of the art devices have the following features:

Features

- Schottky Barrier Diodes
- 20A Total（10A Per Diode Leg）
- Guard Ring for Stress Protection
- Low Forward Voltage
- 175℃ Operating Junction Temperature
- Epoxy Meets UL 94 V 0 @ 0.125 in
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Shipped 50 units per plastic tube
- Pb Free Packages are Available*



Mechanical Characteristics:

- Case: Epoxy, Molded
- Weight: 1.2 grams（approximately）
- Finish: All External Surfaces Corrosion Resistant and
- Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes:
- 260℃ Max. for 10 Seconds

■ MAXIMUM RATINGS (Per Diode Leg)

Rating	Symbol	S20C60D	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Maximum Instantaneous Forward Voltage（i_F=10Amps, T_C=25℃）	V_F	0.72	
Average Rectified Forward Current（Rated V_R）T_C=133℃	$I_{F(AV)}$	10	A
Peak Repetitive Forward Current （Rated V_R, Square Wave, 20kHz）T_C=133℃	I_{FRM}	20	
Nonrepetitive Peak Surge Current （Surge applied at rated load conditions halfwave,single phase, 60Hz）	I_{FSM}	200	
Peak Repetitive Reverse Surge Current （2.0μs, 1.0kHz）	I_{RRM}	5	
Operating Junction Temperature	T_J	-65~+175	℃
Voltage Rate of Change（Rated V_R）	dv/dt	10000	V/μs

■ ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Maximum Instantaneous Reverse Current （Rated DC Voltage, T_C = 125℃） （Rated DC Voltage, T_C = 25℃）	iR	6.0 0.05	mA

■ THERMAL CHARACTERISTICS

Maximum Thermal Resistance Junction to Case Lead Temperature for Soldering Purposes: 1/8, from Case for 5 Seconds	$R_{\theta JA}$ $R_{\theta JC}$	60 2.0	℃/W

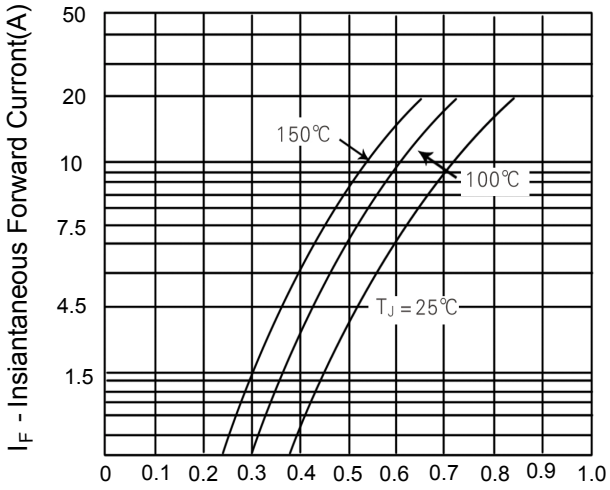


Figure 1. Typical Forward Voltage Per Diode

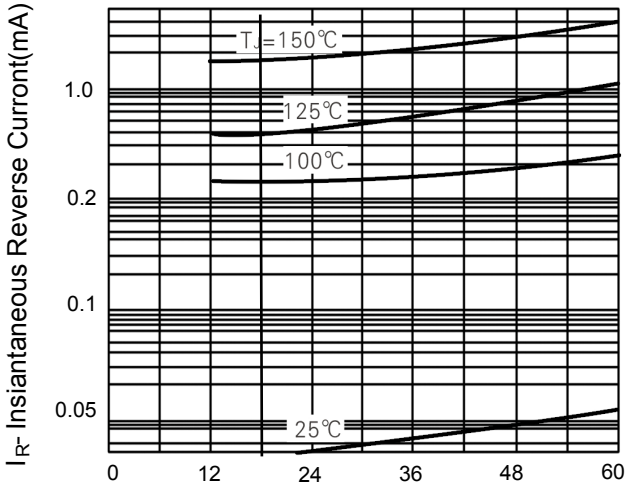
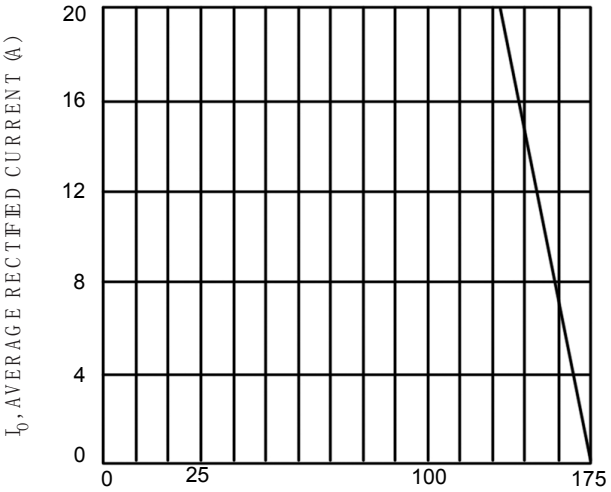
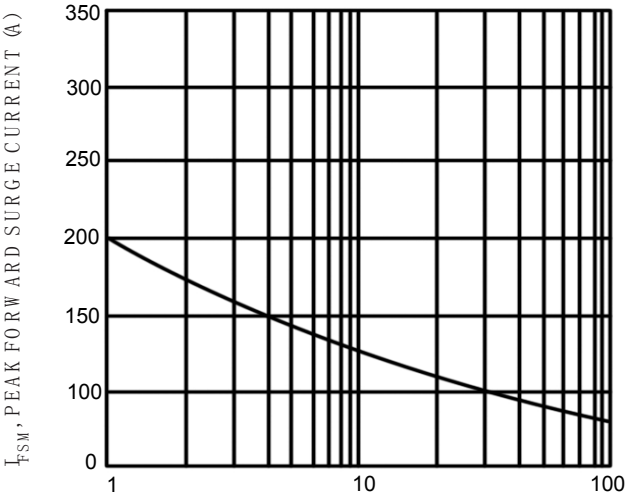


Figure 2. Typical Reverse Current Per Diode

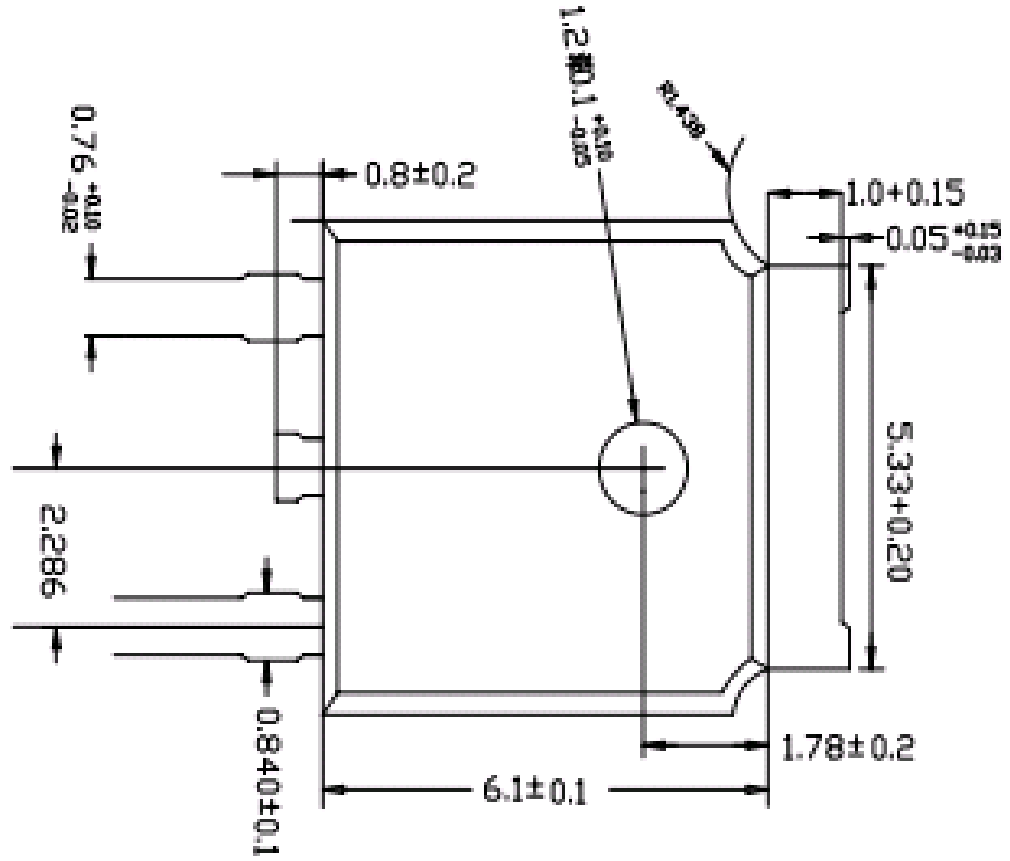


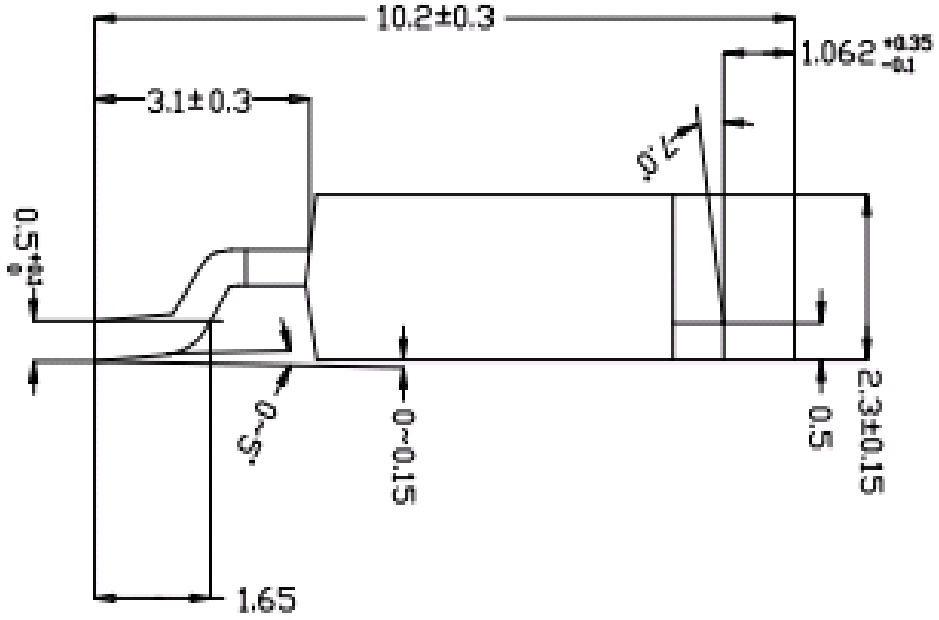
T_C,CASE TEMPERATURE(˚C)
Fig.3 Forward Current Derating Curve



NUMBER OF CYCLES AT 60HZ
Fig.4 Max Non-Repetitive Surge Current

■TO-252（DPAK） Package Dimensions Dimensions in millimeters





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