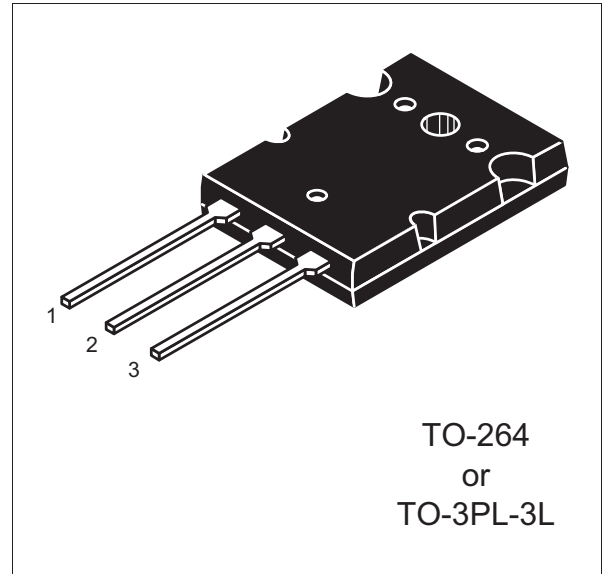


This series uses the Schottky Barrier principle with a platinum barrier metal. These state of the art devices have the following features:

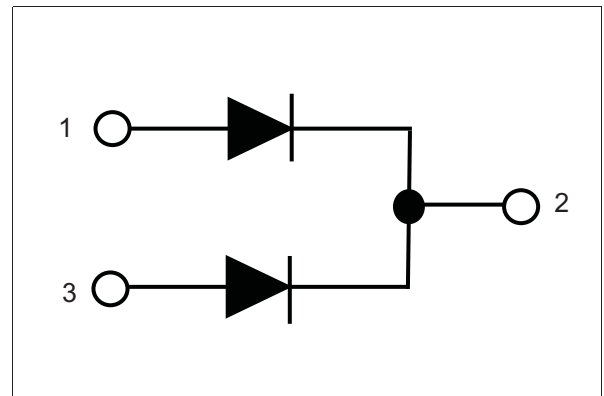
**Features**

- 100A Total (50A Per Diode Leg)
- Guard Ring for Stress Protection
- Low Forward Voltage
- 175°C Operating Junction Temperature
- Epoxy Meets UL 94V0 @ 0.125 in
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Pb Free Packages are Available



**Mechanical Characteristics:**

- Case: Epoxy, Molded
- Weight: 9.75g (typ)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds



■ **MAXIMUM RATINGS (Per Diode Leg)**

Rating	Symbol	MBR100200PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	200	V
Maximum Instantaneous Forward Voltage ( $I_F=10\text{Amps}$ , $T_C=25^\circ\text{C}$ )	$V_F$	0.95	
Average Rectified Forward Current (Rated $V_R$ ) $T_C=133^\circ\text{C}$	$I_{F(AV)}$	50	A
Peak Repetitive Forward Current (Rated $V_R$ , Square Wave, 20kHz) $T_C=133^\circ\text{C}$	$I_{FRM}$	20	
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	$I_{FSM}$	300	
Peak Repetitive Reverse Surge Current (2.0 $\mu\text{s}$ , 1.0kHz)	$I_{RRM}$	5	
Operating Junction Temperature	$T_J$	-65 to +175	
Voltage Rate of Change (Rated $V_R$ )	dv/dt	10,000	V/ $\mu\text{s}$
Maximum Instantaneous Reverse Current (Rated dc Voltage, $T_C=125^\circ\text{C}$ ) (Rated dc Voltage, $T_C=25^\circ\text{C}$ )	$I_R$	6.0 0.05	mA

## Electrical characteristics & Typical characteristics

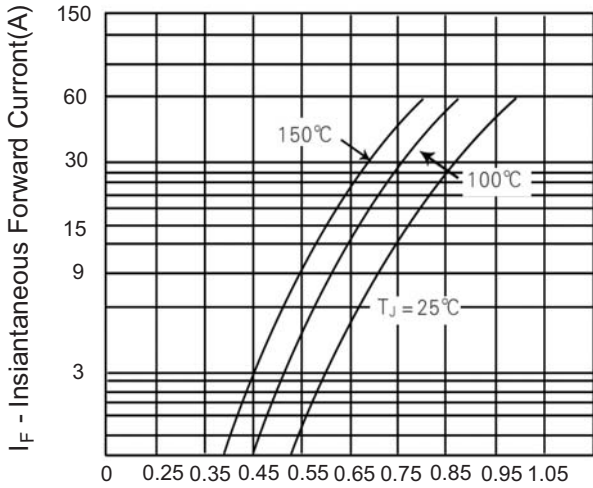


Figure 1. Typical Forward Voltage Per Diode

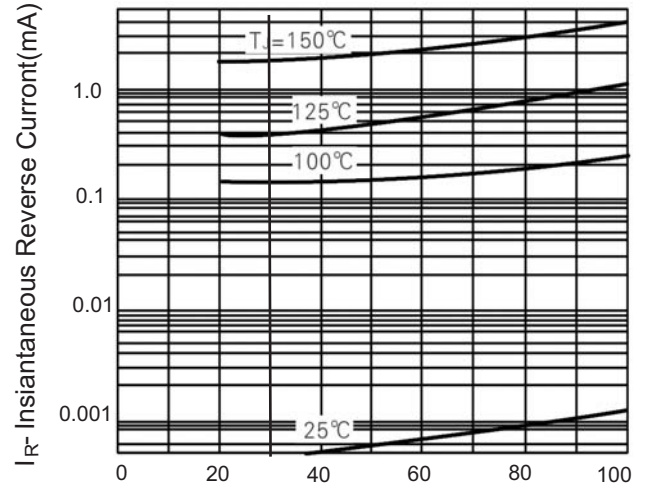


Figure 2. Typical Reverse Current Per Diode

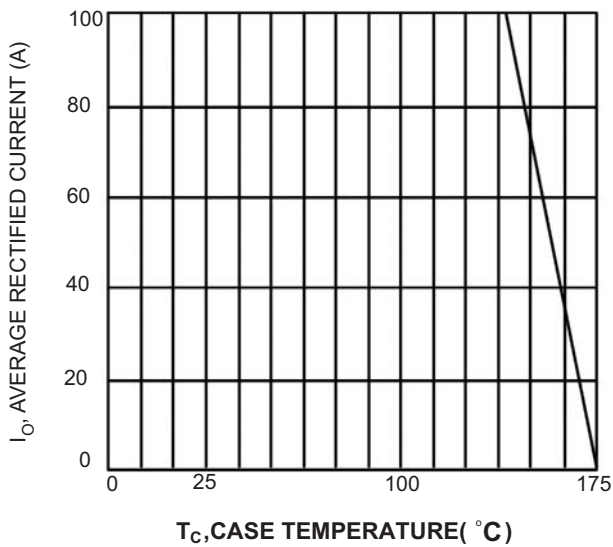


Fig.3 Forward Current Derating Curve

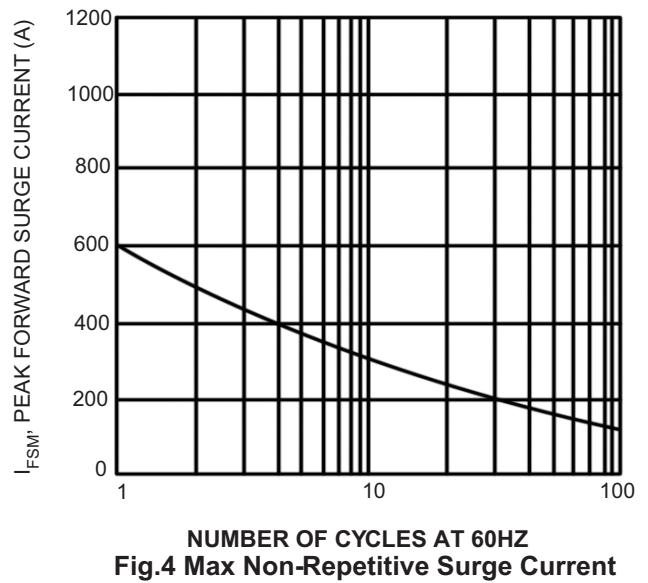
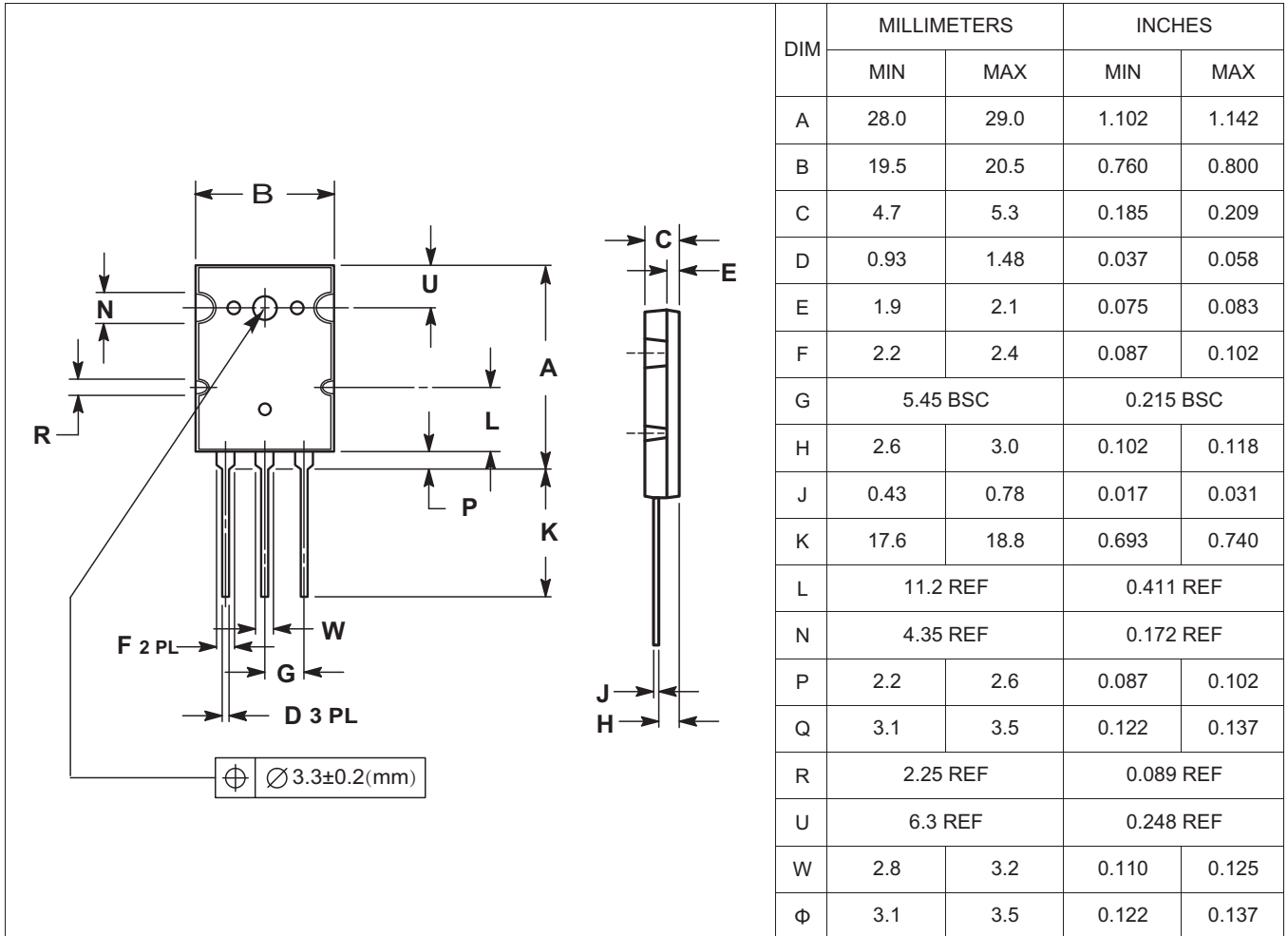


Fig.4 Max Non-Repetitive Surge Current

■ TO-3PL-3L Package Dimensions (Inches and Millimeters)



	<p><b>Marking</b>                  First Row: HAOHAI Company Logo                  XXXXXXXXXXXX: Part Number                  aaaa: Chip code                  YY: Factory Year                  WW: Factory natural Week (01~53)</p>	<p><b>Packaging Specifications</b>                  Plastic tube                  25Pcs/Tub                  375cs/BOX                  3750Pcs/Cartons</p>
--	---	---

*Version Information*

2010-10-05 , HAOHAI™ Product Data-1.0

2015-07-11 , HAOHAI™ Product Data-1.1

2019-03-13 , HAOHAI™ Product Data-1.2



WARN, Letters, patterns, are officially registered my trademark  
counterfeiting, theft are all violations, violators will be held liable !

## HAOHAI ELECTRONICS

ADD: 2 floor(whole floor), BAOXIN Building. 0 Lane on the 8th. Yufeng Garden.  
82 District. BAOAN District, Shenzhen City, Guangdong Province, China.

TEL: +86-755-29955080、29955081、29955082、29955083

FAX: +86-755-27801767

E-mail: [kkg@kkg.com.cn](mailto:kkg@kkg.com.cn)

<http://www.szhhe.com>

<http://www.kkg.com.cn>