

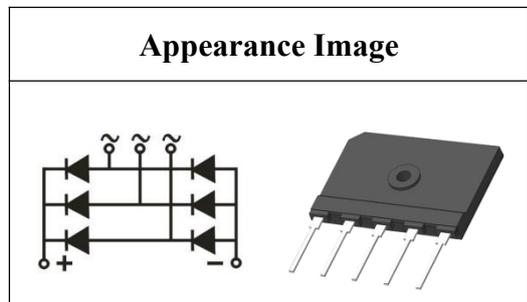
■ **Features**

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

<b>Reverse Voltage</b> 800-1600 V
<b>Forward Current</b> 25.0 A max

■ **Mechanical Data**

- Case: 3PB
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



■ **Marking**

- 3PB25xx(08~16)

■ **Maximum Ratings @ Ta = 25°C unless otherwise noted**

PARAMETER	SYMBOL	UNIT	3PB2508	3PB2510	3PB2512	3PB2514	3PB2516	
Repetitive peak reverse voltage	$V_{RRM}$	V	800	1000	1200	1400	1600	
Maximum RMS voltage	$V_{RMS}$	V	560	700	840	980	1120	
Maximum DC blocking Voltage	$V_{DC}$	V	800	1000	1200	1400	1600	
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	25.0					
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	$I_{FSM}$	A	450					
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	900					
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	$I^2t$	A <sup>2</sup> S	840.38					
Isolation Breakdown Voltage AC 50Hz/60Hz; R.M.S; 1min	$V_{iso}$	V	2500					
Mounting Torque (Recommended torque:0.65 N·m)	$M_s$	N.m	0.8					
Storage temperature	$T_{stg}$	°C	-55~+150					
Junction temperature	$T_j$	°C	-55~+150					

■ **Electrical Characteristics @ Tj = 25°C unless otherwise noted**

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	3PB2508	3PB2510	3PB2512	3PB2514	3PB2516
Maximum instantaneous forward voltage	$I_F=12.5A$	$V_F$	V	1.1				
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_j=25^\circ C$	$I_R$	$\mu A$	5				
	$V_R=V_{DC}, T_j=100^\circ C$	$I_R$		500				

■ **Characteristic Curve (Typical)**

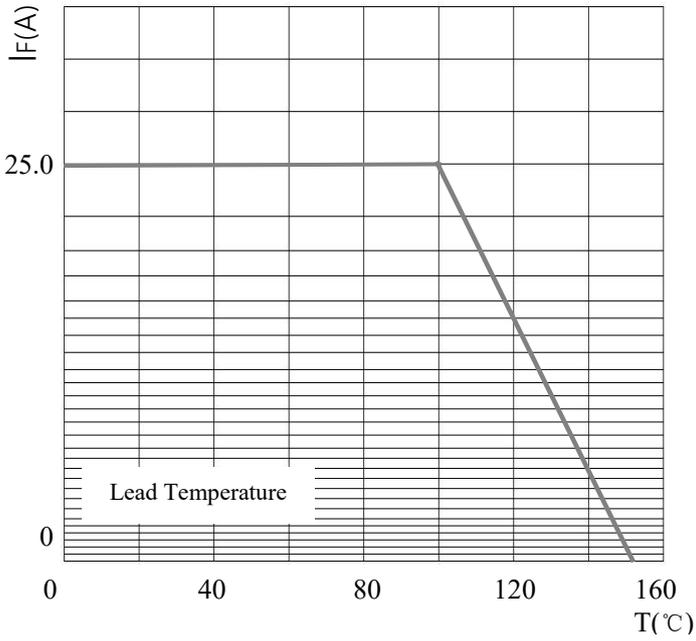


FIG1. Derating Curve For Output Rectified Current

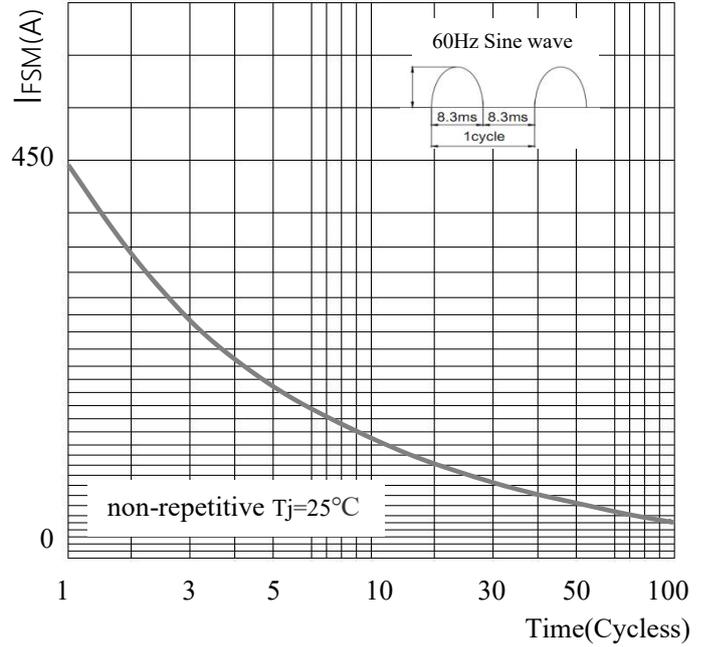


FIG2. Surge Forward Current Capability

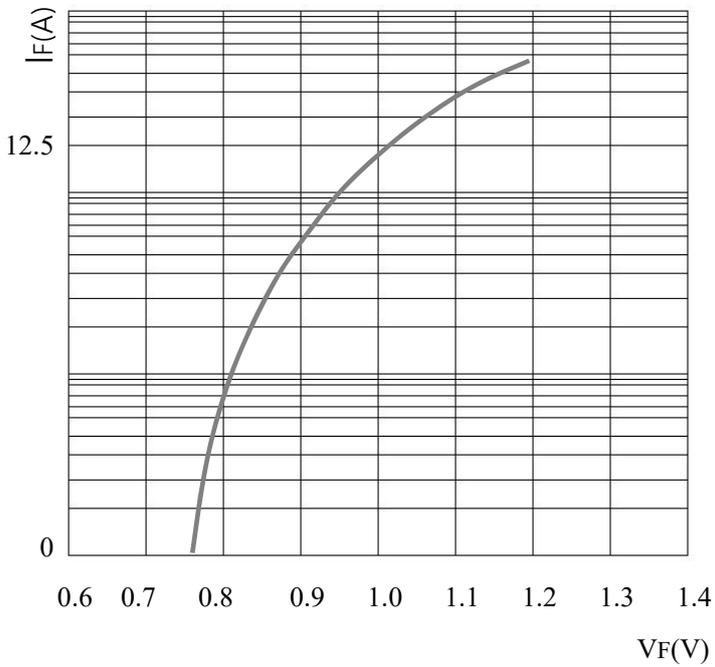


FIG3. Typical Forward Characteristics

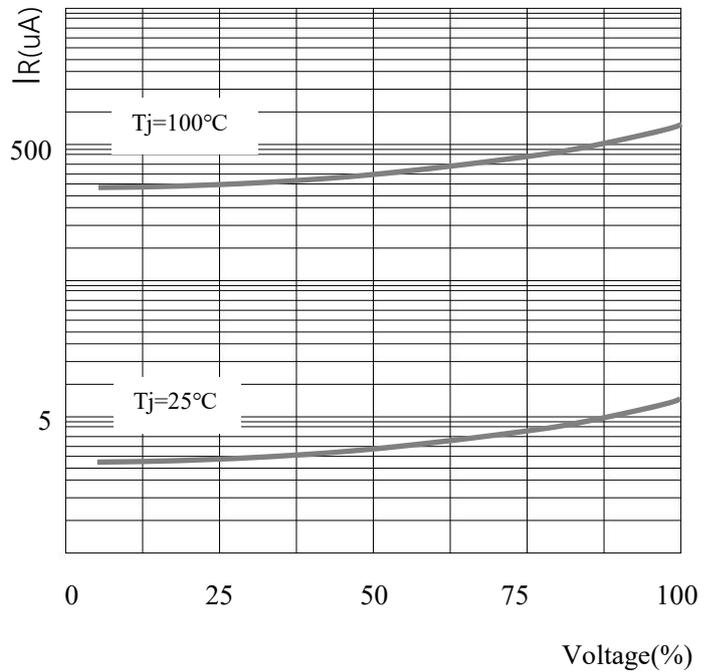
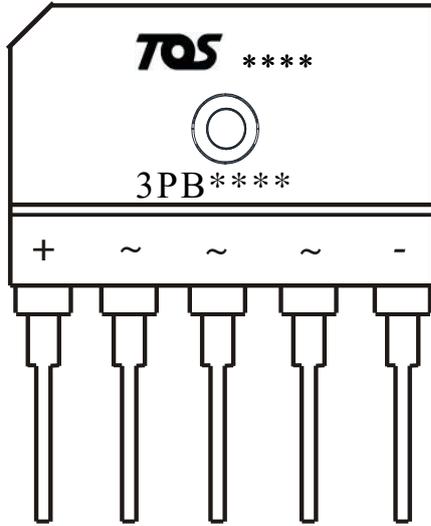


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**

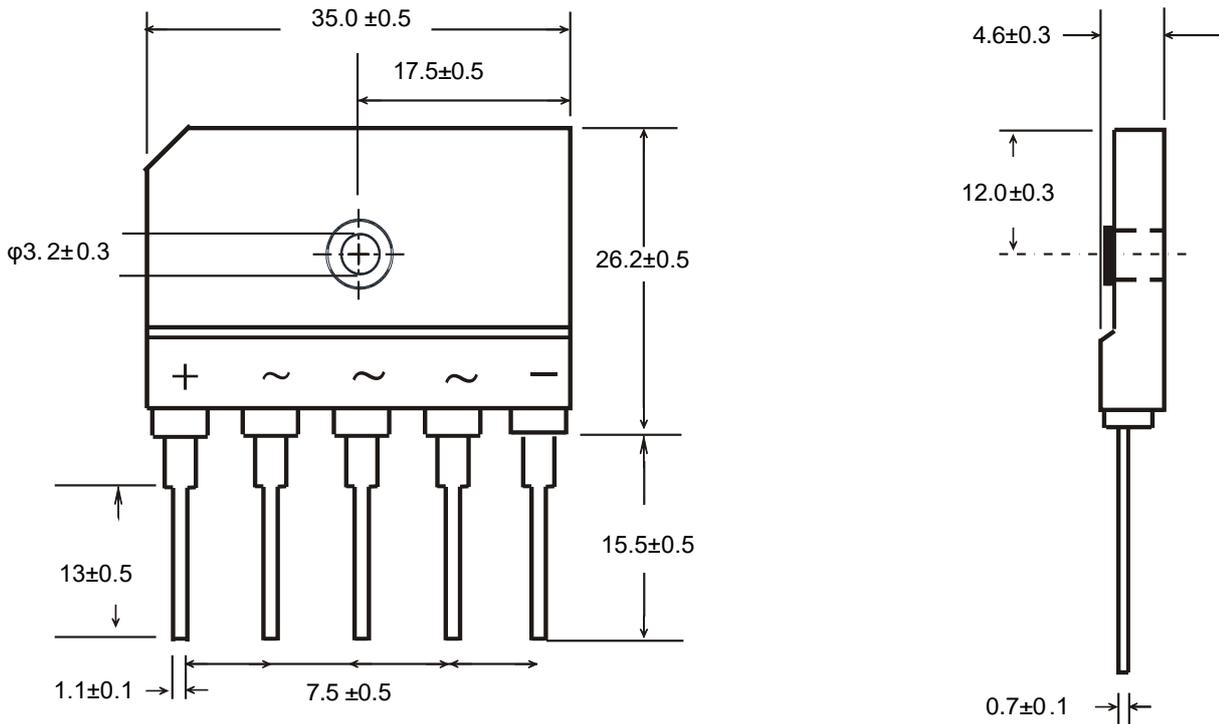


3PB\*\*\*\* : Marking Model

TOS : Brand Logo

Packaging information	
每盒	200PCS
每箱	1200PCS
脚长定制	支持

■ **3PB Package outline dimensions**



Dimensions in millimeters

■ **Notice**

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