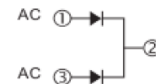
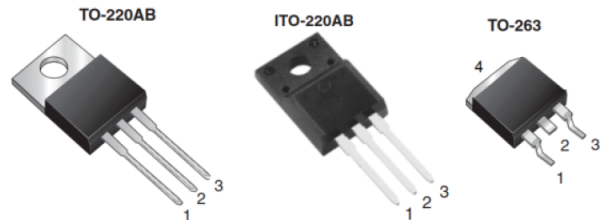




#### Features

- Low forward voltage drop
- Low leakage current
- High surge capacity
- Soft, Fast switch
- High junction temperature capability



#### Mechanical Data

- **Case:** TO-220AB、ITO-220AB、TO-263  
Molding compound meets  
UL 94 V-0 flammability rating
- **Terminals:** Solder plated, solderable per  
MIL-STD-750, Method 2026

- 1-Cathode 1
- 2-Anode
- 3-Cathode 2
- 4-Tab Anode



RoHS  
COMPLIANT

#### Maximum Ratings & Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

Characteristic	Symbol	Ratings	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	V
Maximum average forward rectified current (see fig.1)	I <sub>F(AV)</sub>	2x10	A
Non-repetitive peak surge current (8.3ms, half sine wave)	I <sub>FSM</sub>	200	A
Thermal resistance from junction to case (TO-220AB、TO-263)	R <sub>θJc</sub>	1.1	°C/W
Thermal resistance from junction to case (ITO-220AB)		3.1	
Operating junction temperature range	T <sub>J</sub>	-55 to +175	°C
Storage temperature range	T <sub>STG</sub>	-55 to +175	°C

#### Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

Items	Test conditions	Symbol	Typ	Max	Unit	
Forward voltage drop	I <sub>F</sub> = 5A, T <sub>J</sub> = 25°C	V <sub>F</sub>	-	0.74	V	
	I <sub>F</sub> = 5A, T <sub>J</sub> = 150°C		-	0.57		
	I <sub>F</sub> = 10A, T <sub>J</sub> = 25°C		-	0.80		
	I <sub>F</sub> = 10A, T <sub>J</sub> = 150°C		-	0.64		
Leakage current	V <sub>R</sub> = 150V	I <sub>R</sub>	-	0.1	mA	
			T <sub>J</sub> = 25°C	-		1.0
			T <sub>J</sub> = 175°C	-		10



### RATINGS AND CHARACTERISTIC CURVES

FIG. 1 MAXIMUM FORWARD CURRENT DERATING CURVE

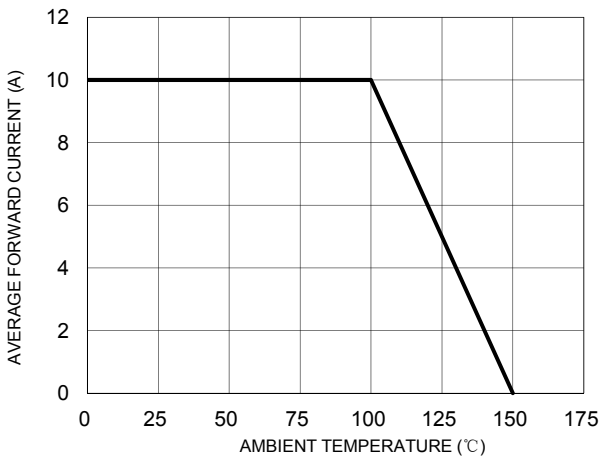


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

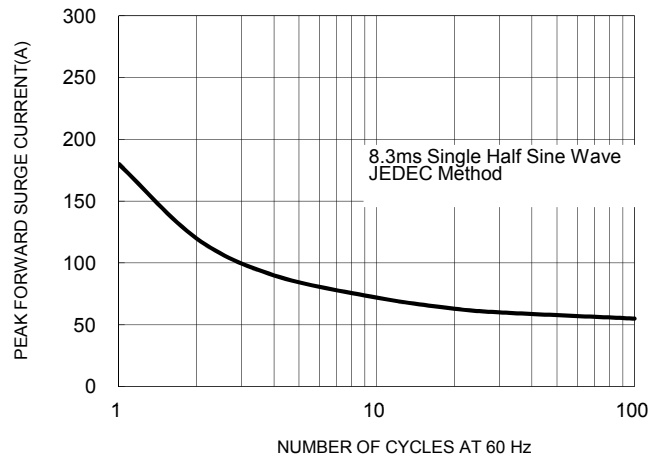


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

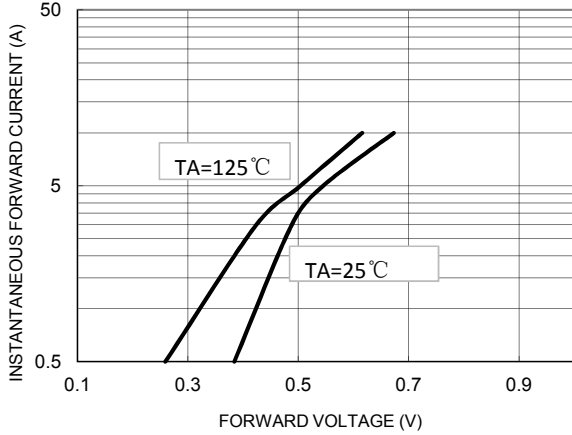
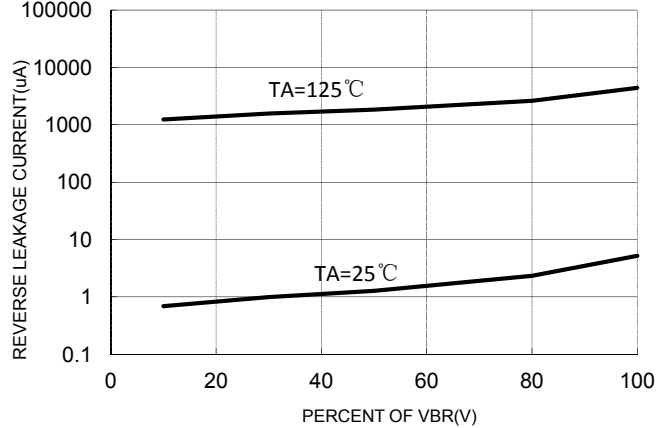
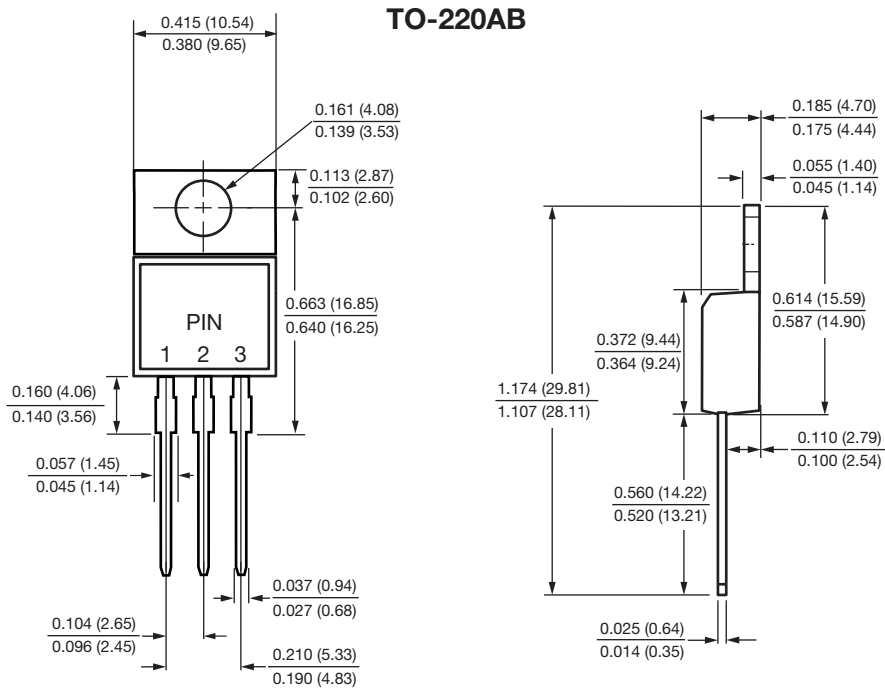


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG





### Package Outline

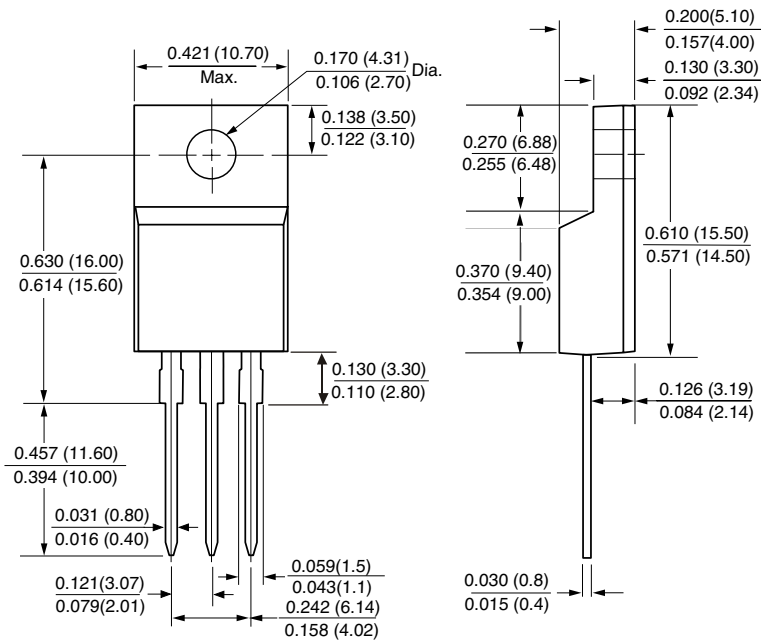


Dimensions in inches and (millimeters)



### Package Outline

#### ITO-220AB

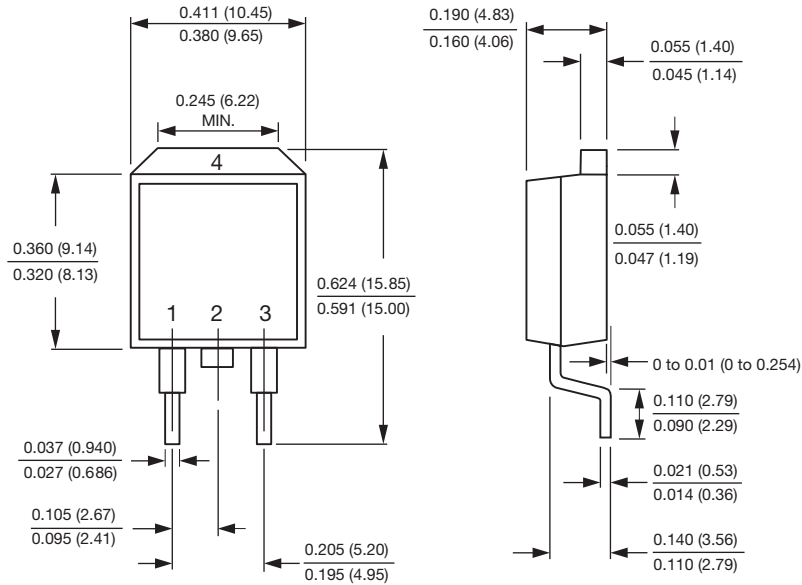


Dimensions in inches and (millimeters)



### Package Outline

#### TO-263



Dimensions in inches and (millimeters)

- TRR is registered trademark of Zhejiang TRR Microelectronics Inc. Zhejiang TRR Microelectronics Inc reserves the right to make changes to any product in this specification without notice.
- Zhejiang TRR Microelectronics Inc does not assure any liability arising out of the applications or use of any product described in this specification.
- Zhejiang TRR Microelectronics Inc advises customers to obtain the latest version of the device information before placing orders to verify that the required information is current.