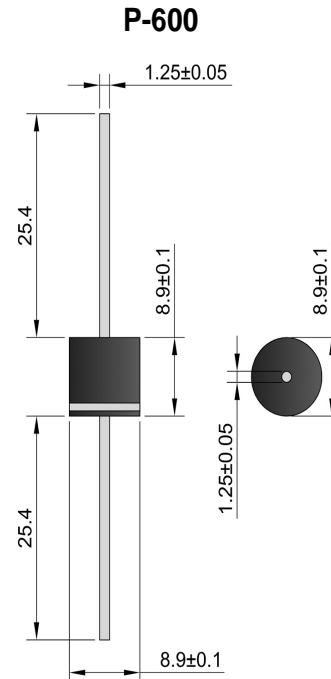


### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### Mechanical Data

- Case: P-600, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 2.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**

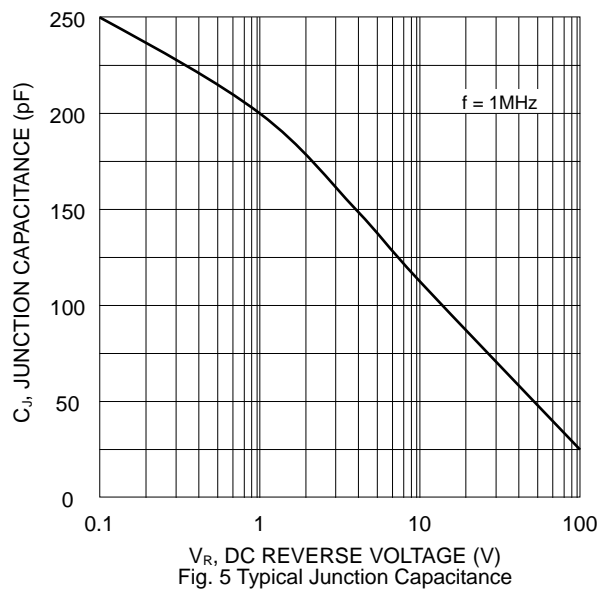
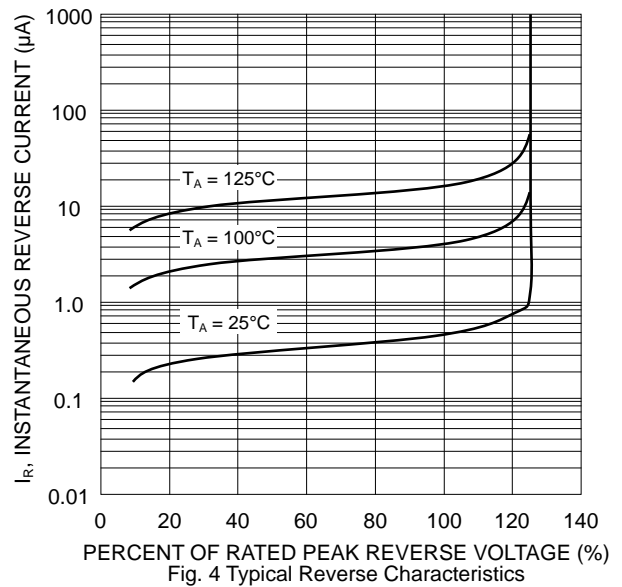
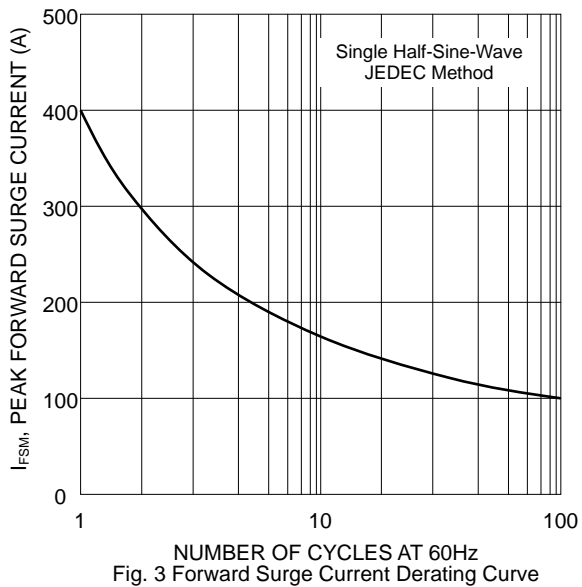
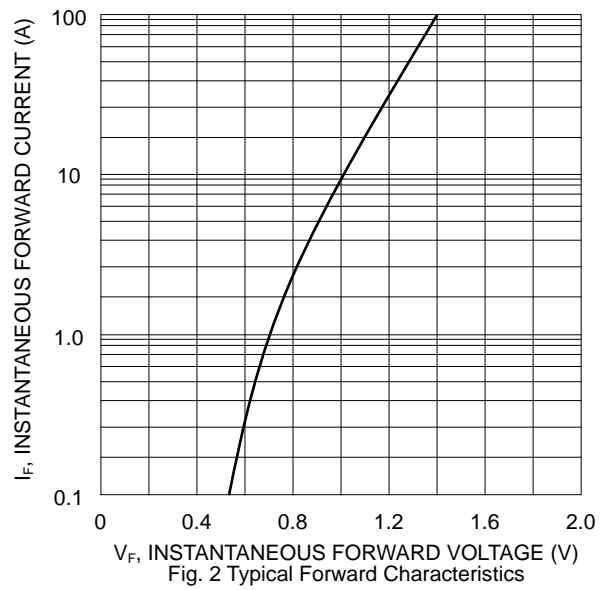
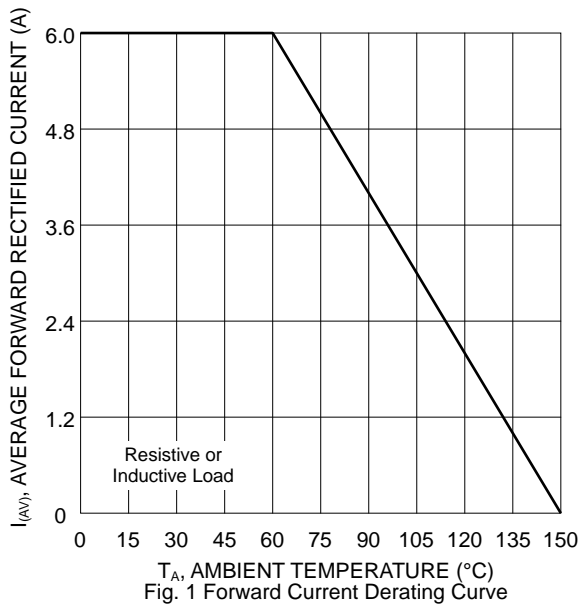


### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

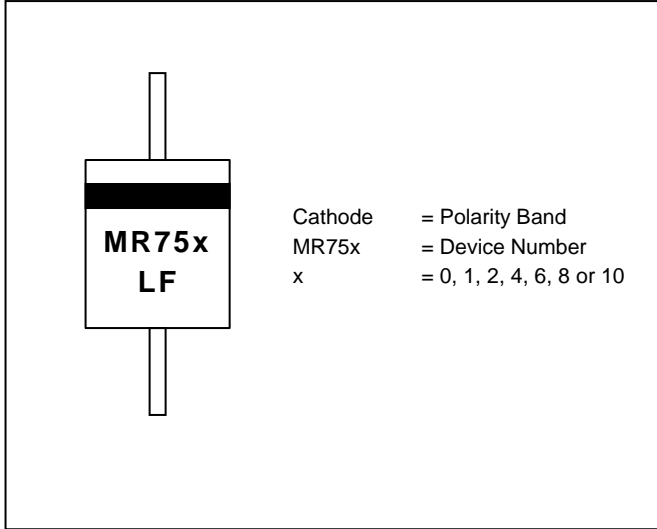
Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	MR 750	MR 751	MR 752	MR 754	MR 756	MR 758	MR 7510	Unit	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Working Peak Reverse Voltage	V <sub>RWM</sub>									
DC Blocking Voltage	V <sub>R</sub>									
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 60°C	I <sub>O</sub>	6.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	400								A
Forward Voltage @I <sub>F</sub> = 6.0A	V <sub>FM</sub>	1.0								V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	I <sub>RM</sub>	5.0 1.0								μA mA
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	150								pF
Typical Thermal Resistance Junction to Ambient (Note 3)	R <sub>JA</sub>	20								°C/W
Typical Thermal Resistance Junction to Lead (Note 3)	R <sub>JL</sub>	4.0								
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-50 to +150								°C

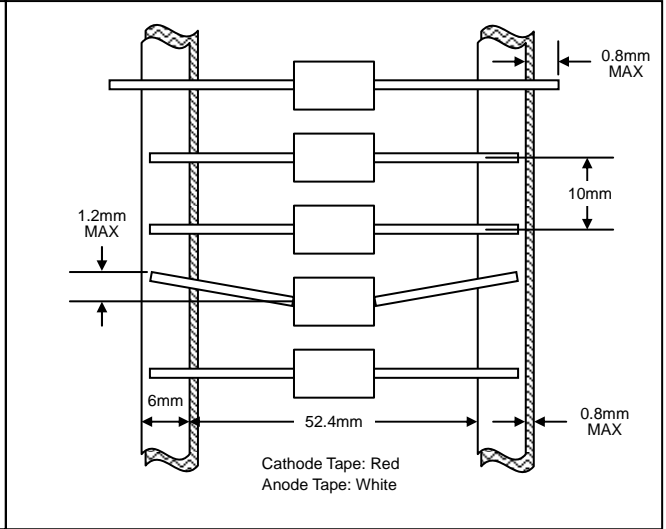
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.  
2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.  
3. Mounted on FR-4 PCB with 30mm x 30mm copper pad.



## MARKING INFORMATION



## TAPING SPECIFICATIONS



## PACKAGING INFORMATION

### TAPE & REEL

330mm  
 Product ID Label  
 80±5mm

### BULK

50mm  
 210mm  
 85mm

Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
<b>TAPE &amp; REEL</b>	330	800	370 x 370 x 420	4,000	12.0
<b>BULK</b>	210 x 85 x 50	250	500 x 255 x 275	7,000	17.0