



6.0A FAST RECOVERY DIODE



Features

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

С D

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, Add "-LF" Suffix to Part Number, See Page 4

P-600					
Dim	Min	Max			
Α	25.4	_			
В	8.60	9.10			
С	1.20	1.30			
D	8.60	9.10			
All Dimensions in mm					

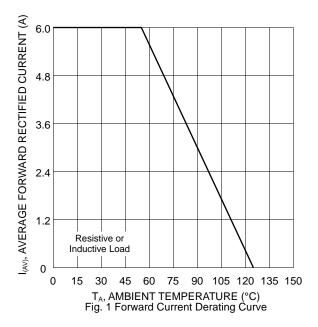
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

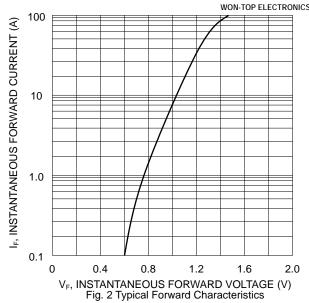
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

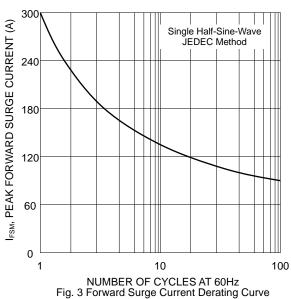
Characteristic	Symbol	FR601	FR602	FR603	FR604	FR605	FR606	FR607	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo				6.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSМ	300					А		
Forward Voltage @I _F = 6.0A	VFM	1.2			V				
	lгм	10 200				μΑ			
Reverse Recovery Time (Note 2)	t _{rr}		1	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	CJ	140					pF		
Typical Thermal Resistance Junction to Ambient (Note 4)	R JA	10					°C/W		
Operating Temperature Range	TJ	-65 to +125					°C		
Storage Temperature Range	Tstg	-65 to +150					°C		

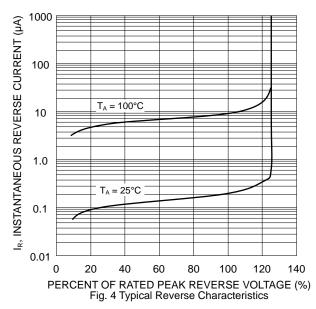
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case. 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C. 4. Mounted on FR-4 PCB with 30mm x 30mm copper pad.

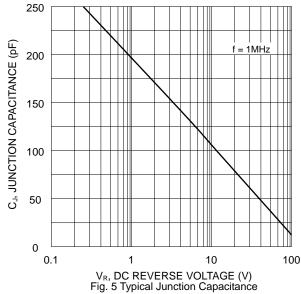








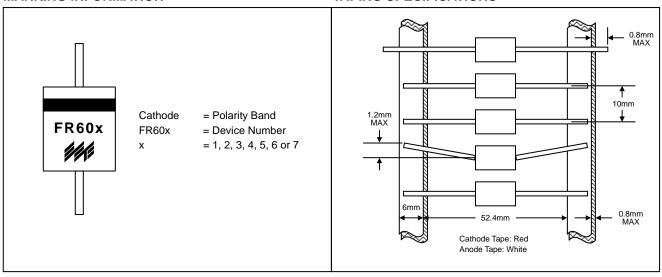




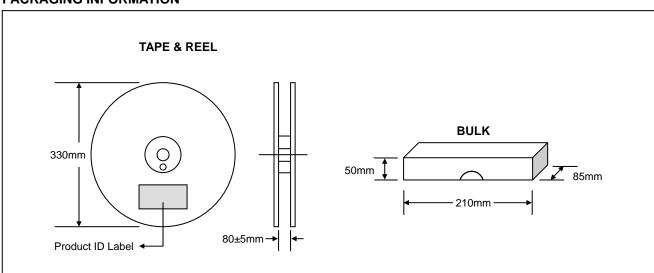


MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



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

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

^{2.} Components are packed in accordance with EIA standard RS-296-E.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
FR60x-T3	P-600	800/Tape & Reel
FR60x	P-600	250 Units/Box

- Products listed in **bold** are WTE **Preferred** devices.
- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, FR601-T3-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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