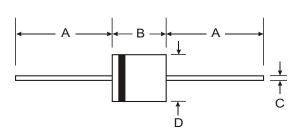


FR601 - FR607

6.0A FAST RECOVERY RECTIFIER

Features NOT RECOMMENDED FOR NEW DESIGNS, ______ PLEASE USE PR6001 - PR6005

- Low Reverse Recovery Time
- Low Reverse Current
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

- Case: R-6, Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202 Method 208
- Polarity: Color Band Denotes Cathode
- Weight: 1.7 grams (approx.)Mounting Position: Any

R-6							
Dim	Min	Max					
Α	25.4	_					
В	8.6	9.1					
С	1.2	1.3					
D	8.6	9.1					
All Dimensions in mm							

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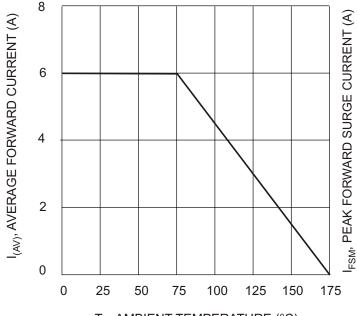
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified.

Characteristic		FR 601	FR 602	FR 603	FR 604	FR 605	FR 606	FR 607	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ Ta=75°C		6.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		300							А
Maximum Instantaneous Forward Voltage @ 6.0A DC	VF	1.3							٧
Maximum DC Reverse Current at Rated Blocking Voltage @ T _A = 25°C		10							μА
	IR	150					μА		
Maximum Reverse Recovery Time (Note 1)	Trr		1	150		250	5	00	ns
Typical Junction Capacitance (Note 2)		200							pF
Operating and Storage Temperature Range		-65 to +175						°C	

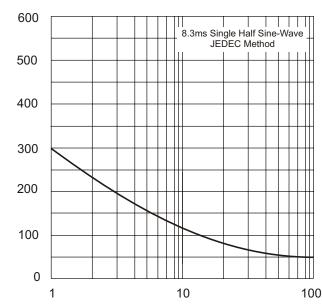
Notes: 1. Reverse Recovery Test Conditions: IF =0.5A, IR =1.0A, IRR =0.25A

2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

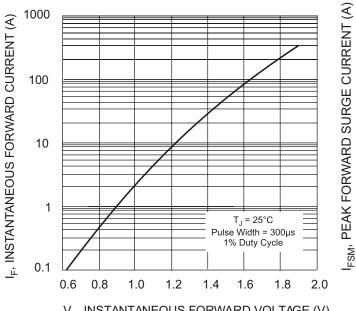




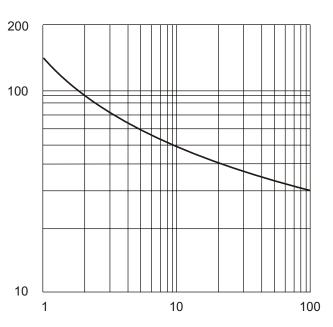
T_A, AMBIENT TEMPERATURE (°C) Fig. 1, Typical Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 2, Max Non-Repetitive Peak Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 3, Typical Instantaneous Forward Characteristics



NUMBER OF CYCLES AT 60Hz Fig. 4, Maximum Non-Repetitive Surge Current