

35 Amp PLASTIC SILICON AUTOMOTIVE RECTIFIERS

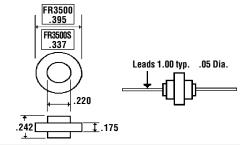
FR3501 ... 3510 Series

Description





Mechanical Dimensions



Features

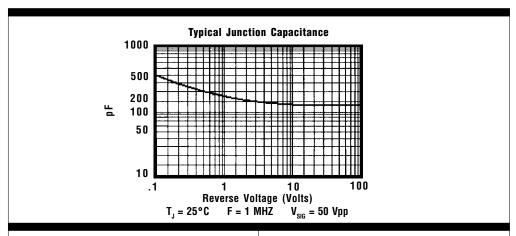
- **LOW COST**
- HIGH SURGE CAPABILITY
- **DIFFUSED JUNCTION**

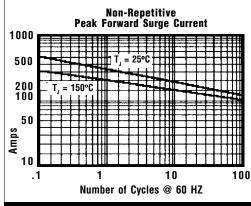
- **LOW LEAKAGE CURRENT**
- HIGH TEMPERATURE CAPABILITY
- MEETS UL SPECIFICATION 94V-0

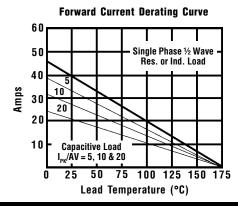
Electrical Characteristics @ 25°C.	FR3501 3510 Series							Units
Maximum Ratings	FR3501	FR3502	FR3503	FR3504	FR3506	FR3508	FR3510	
Peak Repetitive Reverse VoltageV _{RRM}	100	200	300	400	600	800	1000	Volts
RMS Reverse VoltageV _{R(rms)}	70	140	210	280	420	560	700	Volts
DC Blocking VoltageV _{DC}	100	200	300	400	600	800	1000	Volts
Average Forward Rectified CurrentI _{F(av)} T _A = 55°C (<i>Note 3</i>)				35				Amp
Non-Repetitive Peak Forward Surge CurrentI _{FSM} @ Rated Current & Temp	400							Amp
Forward Voltage @ 80AV _F	< 1.18							Volts
DC Reverse CurrentI _R @ Rated DC Blocking Voltage, 150°C								μΑmp μΑmp
Typical Junction CapacitanceC _J (Note 1)				400				pF
Typical Thermal ResistanceR _{eJC} (Note 2)				1.0				°C / V
Typical Reverse Recovery Timet _{RR}				3.0				μS
Operating & Storage Temperature Range T_J , T_{STRG}				-50 to 175	j			°C

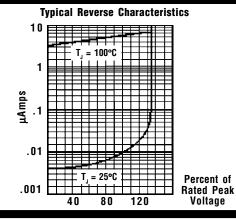


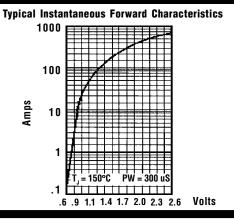
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Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

NOTES: 1. Measured @ 1 MHZ and applied reverse voltage of 4.0V.

- 2. Thermal Resistance Junction to Ambient, Jedec Method.
- 3. When Mounted to heat sink, from body.