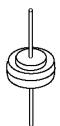
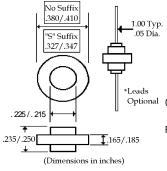
35 Amp PLASTIC SILICON AUTOMOTIVE RECTIFIERS

Mechanical Dimensions

FR3501 ... 3510 Series







Optional Options - Add Suffix to Part #: FR3500L = 2 Leads

> For 1 Lead Small Pkg: FR3500SC = Lead On Cathode FR3500SA = Lead On Anode

Features

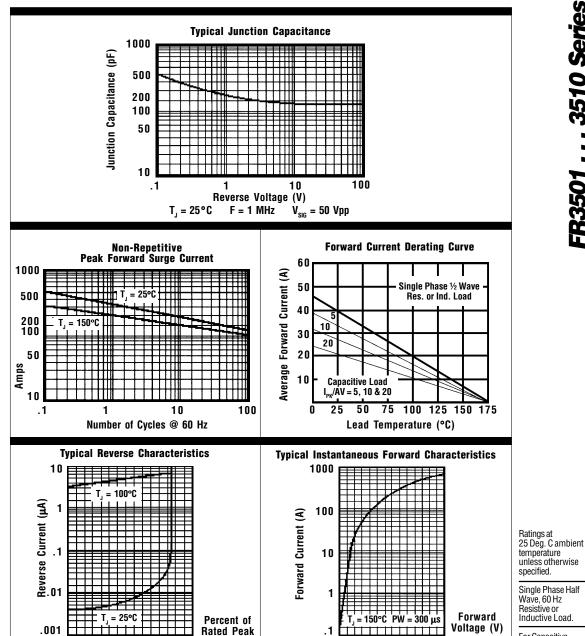
- **LOW COST**
- HIGH SURGE CAPABILITY
- DIFFUSED JUNCTION

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

	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)} $T_A = 55^{\circ}C \text{ (Note 3)}$				35				Amp
Non-Repetitive Peak Forward Surge CurrentI _{FSM} @ Rated Current & Temp				400				Amp
Operating & Storage Temperature Range T_J , T_{STRG}				-50 to 17	5			°C
Electrical Characteristics Maximum Forward Voltage @ 80AV _F	<		1.08	>	<	1.18	>	Volt
Maximum DC Reverse CurrentI _R 25°C @ Rated DC Blocking Voltage, 150°C								μΑm μΑm
Typical Junction CapacitanceC _J (Note 1)				400				pF
Typical Thermal ResistanceR _{e,JA} (Note 2)				1.0				°C/V
Typical Reverse Recovery Timet _{RR}				3.0				μs



35 Amp PLASTIC SILICON AUTOMOTIVE RECTIFIERS



.6 .9 1.1 1.4 1.7 2.0 2.3 2.6

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.

120

2. Thermal Resistance Junction to Ambient, Jedec Method.

Voltage

3. When Mounted to heat sink, from body.

80