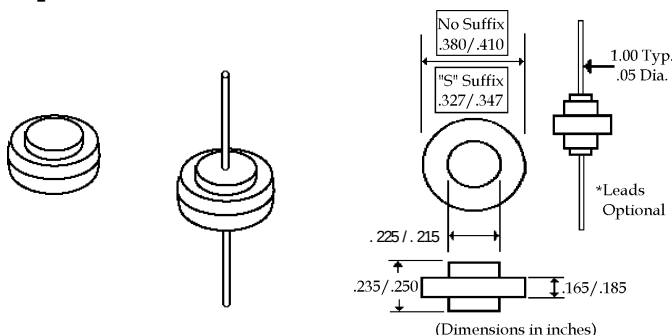


Description

35 Amp PLASTIC SILICON AUTOMOTIVE RECTIFIERS

Mechanical Dimensions



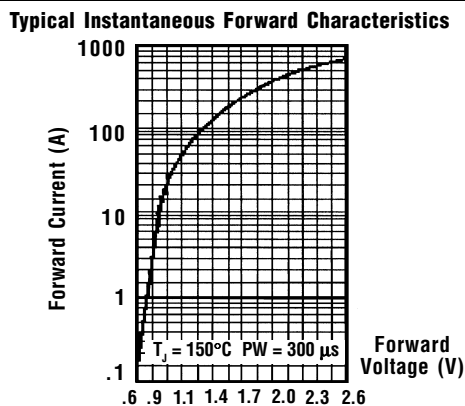
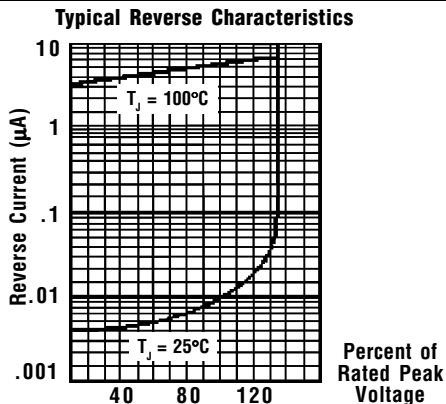
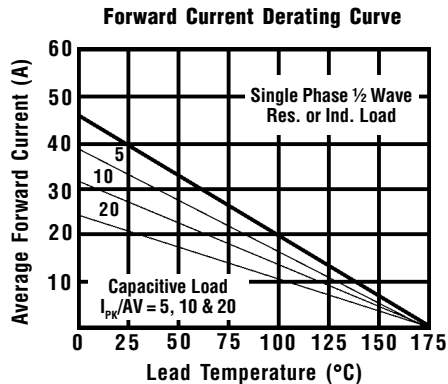
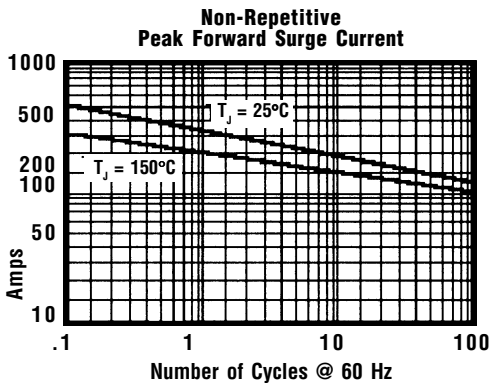
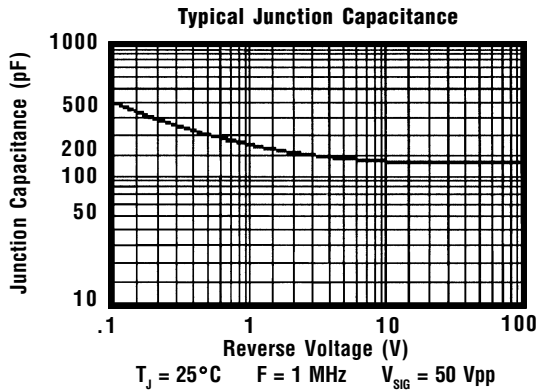
Options - Add Suffix to Part #:
FR3500L = 2 Leads

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 Voltage...V _{RRM}	100	200	300	400	600	800	1000	Volts
RMS Reverse Voltage...V _{R(rms)}	70	140	210	280	420	560	700	Volts
DC Blocking Voltage...V _{DC}	100	200	300	400	600	800	1000	Volts
Average Forward Rectified Current...I _{F(av)} T _A = 55°C (Note 3)	.....			35	.....			Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Current & Temp	.....			400	.....			Amps
Operating & Storage Temperature Range...T _J , T _{STRG}	.....			-50 to 175	.....			°C
Electrical Characteristics								
Maximum Forward Voltage @ 80A...V _F	< 1.08 >			< 1.18 >			Volts	
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage,	25°C	.....			2.0	.....		μAmps
	150°C	.....			350	.....		μAmps
Typical Junction Capacitance...C _J (Note 1)	.....			400	.....			pF
Typical Thermal Resistance...R _{θJA} (Note 2)	.....			1.0	.....			°C/W
Typical Reverse Recovery Time...t _{RR}	.....			3.0	.....			μs



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.