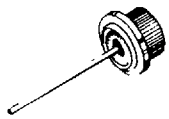
HIGH CURRENT PRESS-FIT SILICON RECTIFIERS



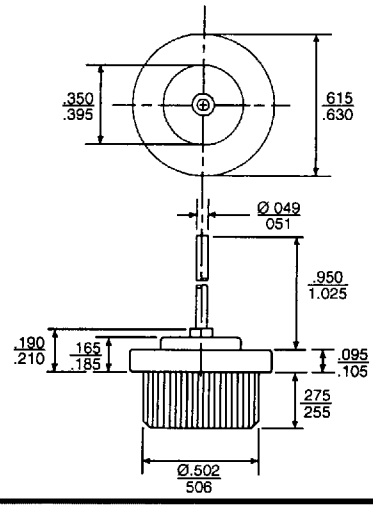
FEATURES

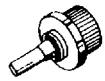
- Low Cost
- Passivated Silicon Diffused Junction
- Low Leakage
- High Current Capability 25/35 Amps at T_c = 150°C
- High Surge Current 400 Amps at T_J = 175°C
- Maximum-Reverse Current Available from 1 0 to 010 mA

MECHANICAL DATA

Case	All copper case and components hermetically sealed
Seal	Glass
Polarity	Zero at end of part number designate cathode connected to case For Reverse Polarity change 0 to "one" (Example 212580-212581) Case polarity color-coded Red equals standard Black equals reverse polarity
Mounting Position	Any
Maximum soldering temperature	250°C/10 seconds

VOLTAGE RANGE
100 to 400 Volts PRV
CURRENT
25 0/35 0 Amps at Tc 150°C





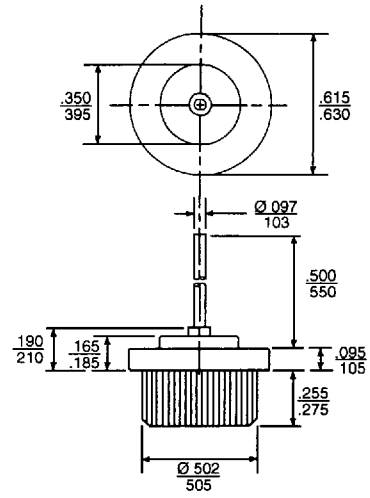
FEATURES

- Low Cost
- Silicon Diffused Junction
- Low Leakage
- High Current Capability 50 Amps at T_c = 150°C
- High Surge Current 400 Amps at T_J = 175°C
- Maximum-Reverse Current Available from 1 0 to 010 mA

MECHANICAL DATA

Case	All copper case and components hermetically sealed
Seal	Glass
Polarity	Zero at end of part number designate cathode connected to case For Reverse Polarity change 0 to "one" (Example 212580-212581) Case polarity color-coded Red equals standard Black equals reverse polarity.
Mounting Position	Any
Maximum soldering temperature	250°C/10 seconds.

VOLTAGE RANGE
100 to 400 Volts PRV
CURRENT
50 0 Amps at Tc 150°C



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.
Single phase, half-wave, 60 HZ, resistive or inductive load

25 amp

RENARD PART NUMBERS		212540,1 = 1mA 212570,1 = 100µA 212580,1 = 10µA	222540,1 = 1mA 222570,1 = 100µA 222580,1 = 10µA	242540 1 = 1mA 242570 1 = 100µA 242580 1 = 10µA	
					UNITS
Peak Reverse Voltage, Repetitive V_{RRM}		100	200	400	Vpk
Maximum RMS Voltage		70	140	280	VRMS
DC Reverse Voltage, V_R		100	200	400	Vdc
Average Forward Current, I_O at T_C = 150°C 60 HZ, resistive or inductive load		25			Adc
Peak Forward Surge Current I_{FM} (surge) 8 3 ms single half sine-wave superimposed on rated load (JEDEC method)		400			Apk
Max Inst Forward Voltage Drop V_F at 80 Amp		1 18			Vdc
Maximum Reverse Current I_R at Rated DC Reverse Voltage		Available from 1 to 010			mA
Maximum Reverse Current I_R at Rated DC Reverse Voltage T_C = 100°C		3 0			mA
Maximum thermal resistance, junction to case (single side cooled)		1 2			°c/w
Operating and Storage Temperature Range		-65 to +175			°C

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.
Single phase, half-wave, 60 HZ, resistive or inductive load

35 amp

RENARD PART NUMBERS		213540,1 = 1mA 213570,1 = 100µA 213580,1 = 10µA	223540,1 = 1mA 223570,1 = 100µA 223580,1 = 10µA	243540,1 = 1mA 243570,1 = 100µA 243580,1 = 10µA	
					UNITS
Peak Reverse Voltage, Repetitive V_{RRM}		100	200	400	Vpk
Maximum RMS Voltage		70	140	280	VRMS
DC Reverse Voltage, V_R		100	200	400	Vdc
Average Forward Current, I_O at T_C = 150 C 60 HZ, resistive or inductive load		35			Adc
Peak Forward Surge Current, I_{FM} (surge) 8 3 ms single half sine-wave superimposed on rated load (JEDEC method)		400			Apk
Max Inst Forward Voltage Drop, V_F at 80 Amp		1 18			Vdc
Maximum Reverse Current I_R at Rated DC Reverse Voltage		Available from 1 to .010			mA
Maximum Reverse Current I_R at Rated DC Reverse Voltage T_C = 100°C		3 0			mA
Maximum thermal resistance, junction to case (single side cooled)		1 2			°c/w
Operating and Storage Temperature Range		-65 to +175			°C

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.
Single phase, half-wave, 60 HZ, resistive or inductive load

RENARD PART NUMBERS		215040,1 = 1mA 215070,1 = 100µA 215080,1 = 10µA	225040,1 = 1mA 225070,1 = 100µA 225080,1 = 10µA	245040,1 = 1mA 245070,1 = 100µA 245080,1 = 10µA	
					UNITS
Peak Reverse Voltage, Repetitive V_{RRM}		100	200	400	Vpk
Maximum RMS Voltage		70	140	280	VRMS
DC Reverse Voltage, V_R		100	200	400	Vdc
Average Forward Current, I_O at T_C = 150°C 60 HZ, resistive or inductive load	50				Adc
Peak Forward Surge Current, I_{FM} (surge) 8 3 ms single half sine-wave superimposed on rated load (JEDEC method)	400				Apk
Max Inst Forward Voltage Drop, V_F at 78.5 Amp	1 18				Vdc
Maximum Reverse Current I_R at Rated DC Reverse Voltage	Available from 1 000 to 010				mA
Maximum Reverse Current I_R at Rated DC Reverse Voltage T_C = 100°C	3 0				mA
Maximum thermal resistance, junction to case (single side cooled)	0.8				°c/w
Operating and Storage Temperature Range	-65 to +175				°C