



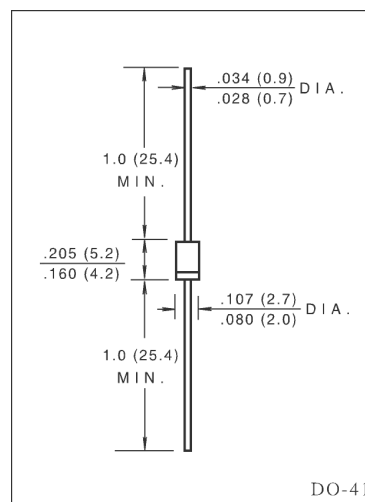
R1200 THRU R5000 HIGH VOLTAGE SILICON RECTIFIER

FEATURES

- Low leakage
- High surge capability
- High current capability
- High temperature soldering guaranteed:
260°C/10 seconds. 0.375" (9.5mm) lead length
at 5lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V - 0 rate flame retardant
- Polarity: Color band denotes cathode end.
- Lead: Plated slug, solderable per MIL - STD 202 E
method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33grams (DO-41)
0.014 ounce, 0.39 grams (DO-15)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%

		SYMBOLS	R1200	R1500	R1800	R2000	R2500	R3000	R4000	R5000	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1200	1500	1800	2000	2500	3000	4000	5000	Volts
Maximum RMS Voltage		V _{RMS}	840	1050	1260	1400	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage		V _{DC}	1200	1500	1800	2000	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) Lead length at T _A = 50°C		I _(AV)	500				200				mA
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)		I _{FSM}	30								Amps
Maximum Instantaneous Forward Voltage Drop at 0.5A / 0.2A		V _F	2.0			3.0		4.0	5.0		Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A = 25°C	I _R	5.0								μ A
	T _C = 100°C		40								
Maximum Full Load Reverse Current, full cycle average 0.375" (9.5mm) lead length at T _L = 75°C		I _{R(AV)}	30								
Operating and Storage Temperature Range		T _J , T _{STG}	(-65 to +150)								°C



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

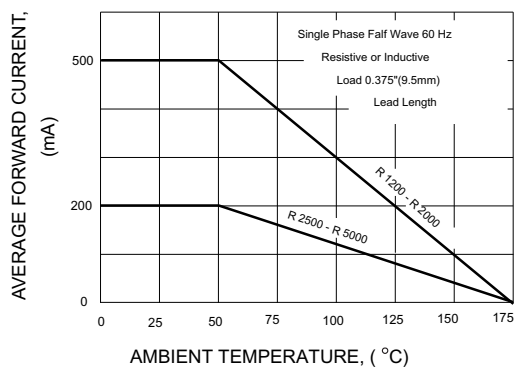


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

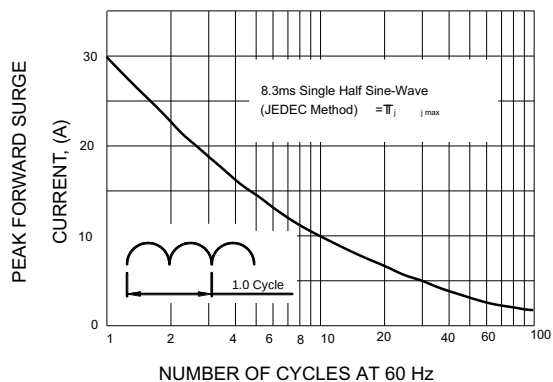


FIG.3-TYPICAL REVERSE
CHARACTERISTICS

