R30A...R30M FAST SILICON RECTIFIERS

FEATURES

- * Low forward voltage
- * High current capability
- * Low leakage current
- * High surge capability
- * Low cost

DO - 201AD



VOLTAGE RANCE 50 to 1000 Volts CURRENT 3.0 Amperes

Dimensions in mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	R30A	R30B	R30D	R30G	R30J	R30K	R30M	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	v
Maximum Average Forward Rectified Current .375". 9.5mm Lead Length at T _A = 60 °C			-	3.0		•		A
Peak Forward Surge Current 8.3 ms single half sine-wave				150				A
Maximum Forward Voltage at 3.0A Peak				1.3				v
Maximum Full Load Reverse Current, Full Cycle Average375", (9.5mm) Lead Length at T _A = 55 °C				50				μA
Maximum DC Reverse Current, at Rated DC Blocking Voltage				5				μΑ
Maximum Reverse Recovery Time (Note 1)	150	150	150	150	250	500	500	ns
Typical Junction Capacitance (Note 2)	65							рF
Operating and Storage Temperature Range	-65 to + 175							°C

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NOTES:

1. Reverse Recovery Test Conditions: $I_F = .5A$, $I_R = 1.0A$, $I_{rr} = .25A$

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts





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