

I. General Purpose Rectifier

6.0A Silicon Rectifier

6A05~6A10

(Package: R-6)

<u>FEATURES</u>	
<ul style="list-style-type: none"> The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Construction utilizes void-free molded plastic technique Low reverse leakage High forward surge current capability High temperature soldering guaranteed : 250 /10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3 kg) tension 	
<u>MECHANICAL DATA</u>	<ul style="list-style-type: none"> Case : R-6 molded plastic body Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.072 ounce, 2.05 grams
	<p>Case: R-6 Dimensions in inches and (millimeters)</p>

Ratings & Electrical Characteristics

Characteristic	Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_a = 60$	I_o	6.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400.0							Amps
Maximum instantaneous forward voltage at 6.0A	V_F	0.95							Volts
Maximum DC reverse current $T_a = 25$ at rated DC blocking voltage $T_a = 100$	I_R	10.0 400							μA
Typical junction capacitance (Note 1)	C_j	150							pF
Typical thermal resistance (Note 2)	Rth-JA	10.0							/ W
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +175							

Note :

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted

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Ratings and Characteristic Curves of 6A05~6A10

