

VOLTAGE RANGE: 50 - 1000V

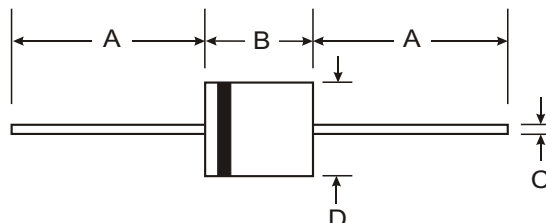
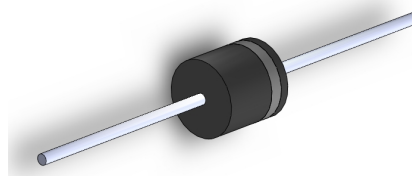
CURRENT: 6.0 A

Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Low Reverse Leakage Current
- Plastic Material - UL Flammability Classification 94V-0

Mechanical Data

- Case: R-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 2.1 grams (approx)
- Marking: Type Number



R-6		
Dim	Min	Max
A	25.4	—
B	8.6	9.1
C	1.2	1.3
D	8.6	9.1
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm lead length @ T _A = 75°C (See Fig. 1)	I _(AV)	6.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	400							A
Maximum Instantaneous Forward Current at 6.0A DC	V _F	0.90							V
Maximum DC Reverse Current at Rated Blocking Voltage @ T _A = 25°C @ T _A = 100°C	I _R	10 100							μA
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175							°C

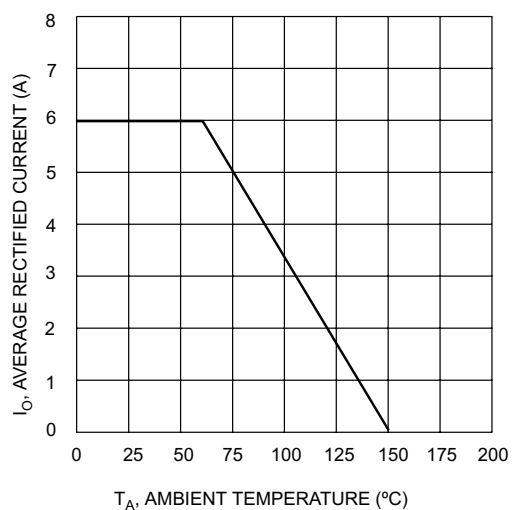


Fig. 1 Forward Current Derating Curve

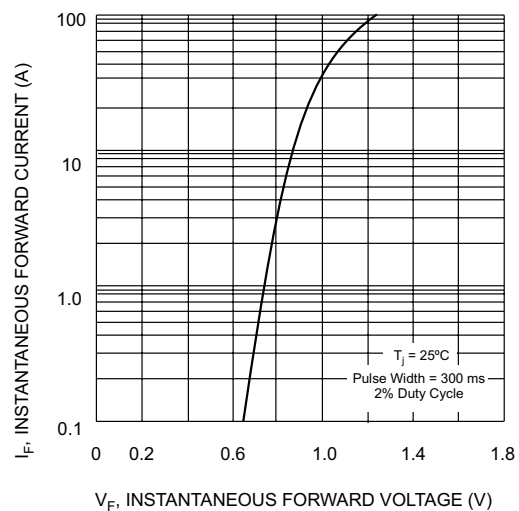


Fig. 2 Typical Forward Characteristics

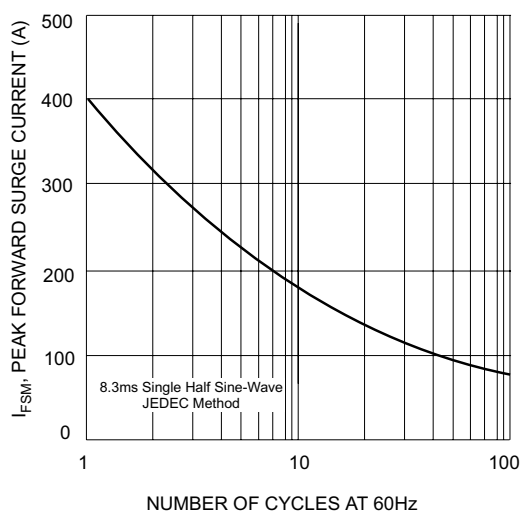


Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

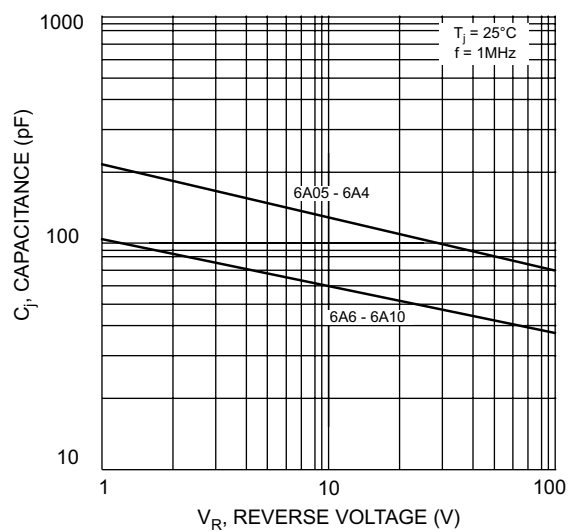


Fig. 4 Typical Junction Capacitance