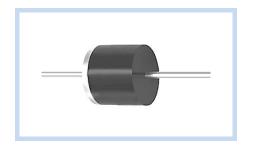


FEATURES

- Reverse Voltage Range: 50~1000V
- High Surge Current Capability
- Applications: Switching Mode Converters and Inverters,
 DC to DC Converter, High Frequency Rectification, Bypass Diode



MECHANICAL DATA

- Case: R-6, Molded Plastic
- UL Flammability Classification Rating 94V-0
- Lead: Axial leads, solderable per MIL-STD-202, method 208
- . Polarity: Color band denotes cathode end





ELECTRICAL CHARACTERISTICS

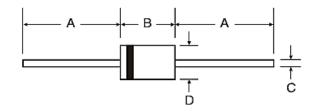
Parameter		Symbols	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length at T _A =50°C		I _(AV)	6						Α	
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	250					Α		
Maximum Forward Voltage at 6.0A DC and T _J =25°C		V _F	1.1					V		
Maximum Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	10							μА
	T _J =100°C		100							
Typical Junction Capacitance		CJ	150					pF		
Typical Thermal Resistance		$R_{\theta JA}$	10					°C/W		
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +150					°C		

Note:

- Ratings at 25°C ambient temperature unless otherwise specified.
- 2. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC.
- 4. Thermal Resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. Mounted with 1.1"x1.1" (30 x30mm) copper pads.

DIMENSIONS

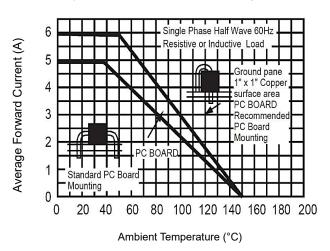
R-6	Min.(mm)	Max. (mm)			
Α	25.4	-			
В	8.6	9.1			
С	1.2	1.3			
D	8.6	9.1			



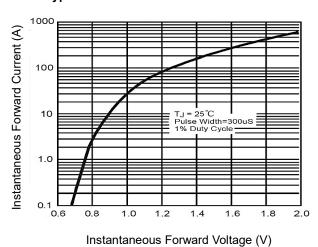


CHARACTERISTIC CURVES

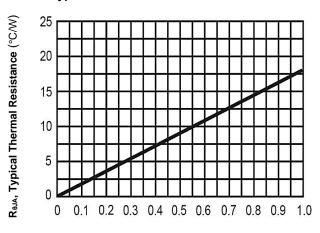
Typical Forward Current Derating Curve



Typical Instantaneous Forward Characteristics

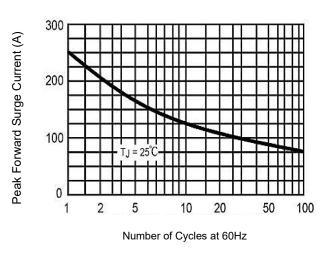


Typical Thermal Resistance Characteristics

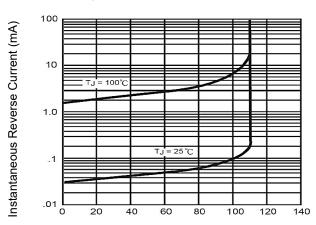


Equal Lead Length to Heat Sink (Inch)

Maximum Non-repetitive Forward Surge Current



Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)