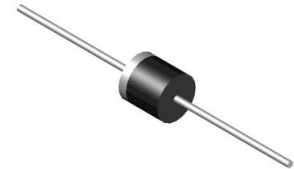
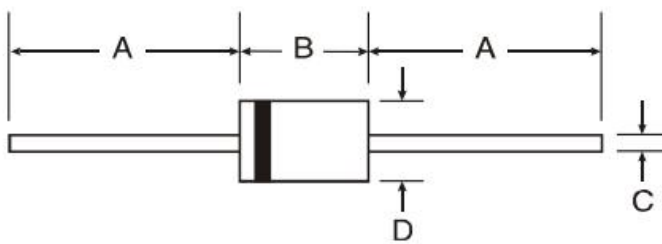


Features

- ◆ High efficiency
- ◆ High current capability
- ◆ High reliability
- ◆ High surge current capability
- ◆ Low power loss
- ◆ Glass passivated chip junction



Dimensions(R-6)



Symbol	Millimeters	
	Min.	Max.
A	25.4	--
B	8.60	9.10
C	1.20	1.30
D	8.60	9.10

Maximum Ratings and Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Rating		Symbol	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	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
Average Forward Current @Half-sine wave, Resistance load		I _O	6							A
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, T _A =25 °C		I _{FSM}	175							A
Maximum forward Voltage at 6A		V _F	1.1							V
Peak Reverse Current at Rated DC Blocking Voltage	@T _J =25°C	I _R	5							μA
	@T _J =125°C		500							
Current squared time @1ms≤t≤8.3ms T _A =25 °C,Rating of per diode		I ² t	127.1							A ² s
Typical Thermal Resistance		R _{thJA}	20							°C/W
Operating Temperature Range		T _J	-55 to +150							°C
Storage Temperature Range		T _{STG}	-55 to +150							°C

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

Figure 1. Forward Current Derating Curve

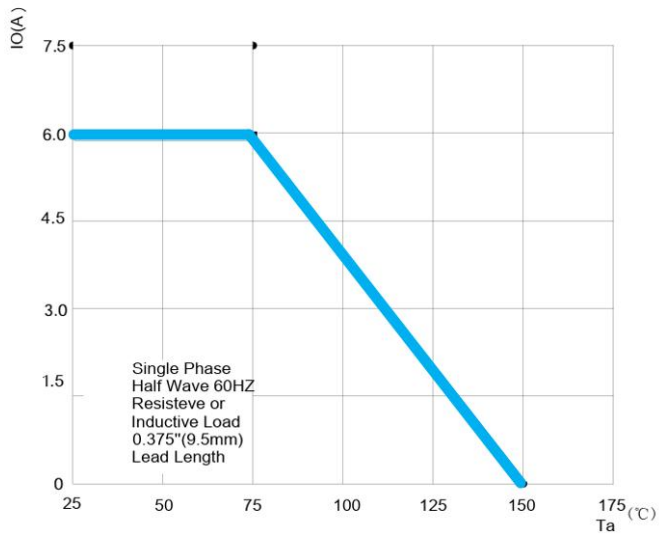


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

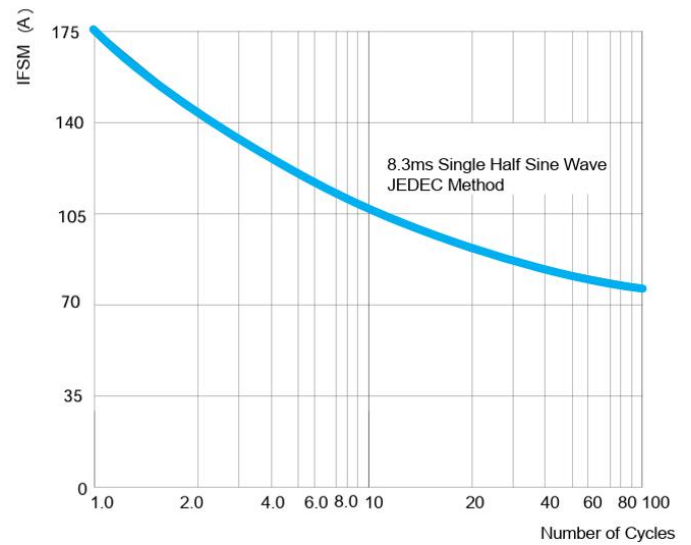


Figure 3. Typical Instantaneous Forward Characteristics

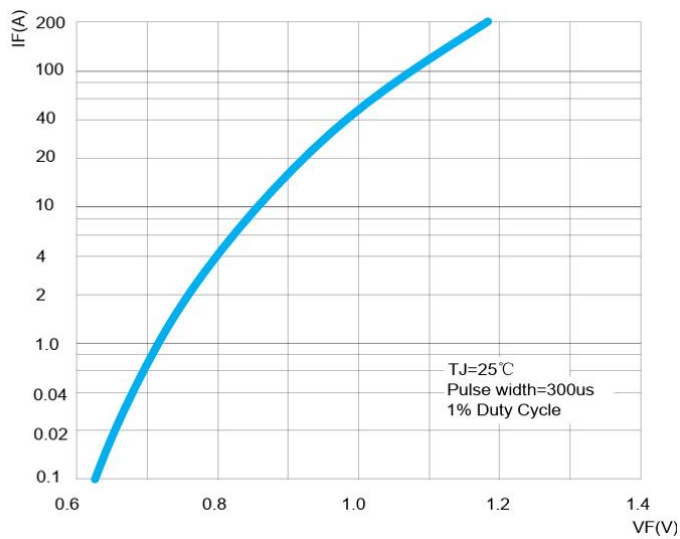
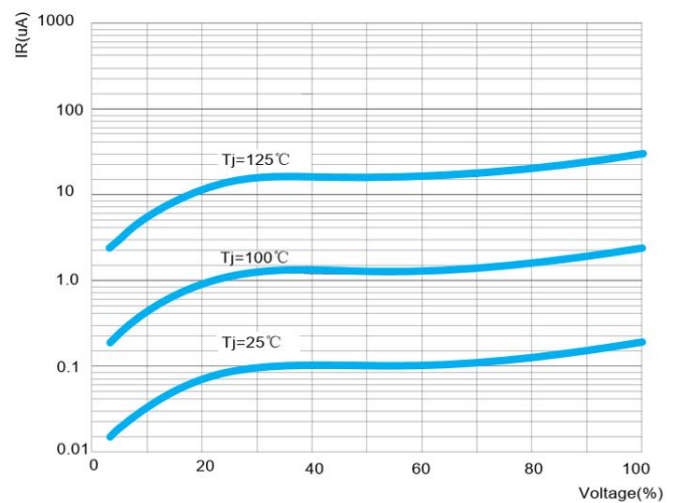


Figure 4. Typical Reverse Leakage Characteristics



Wave Soldering Parameters

