

Features

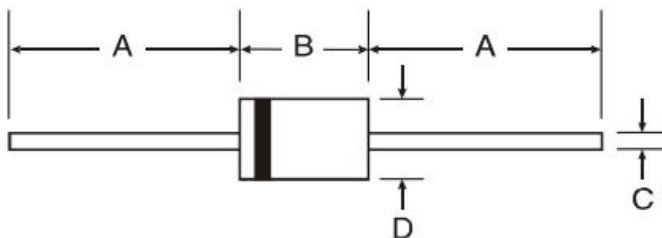
- ◆ High efficiency
- ◆ High current capability
- ◆ High reliability
- ◆ High surge current capability
- ◆ Low power loss
- ◆ Glass passivated chip junction



Applications

- ◆ Power supplies
- ◆ Inverters
- ◆ Converters
- ◆ Freewheeling diodes

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 noted)

Rating	Symbol	10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G	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	10							A
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, T _A =25 °C	I _{FSM}	350							A
Maximum forward Voltage at 10A	V _F	1.1							V
Peak Reverse Current at Rated DC Blocking Voltage	I _R @25°C	2.5							μA
	I _R @125°C	100							
Current squared time @1ms≤t8.3≤ms T _A =25 °C,Rating of per diode	I ² t	508.4							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°C unless otherwise noted)

Figure1.Forward Current Derating Curve

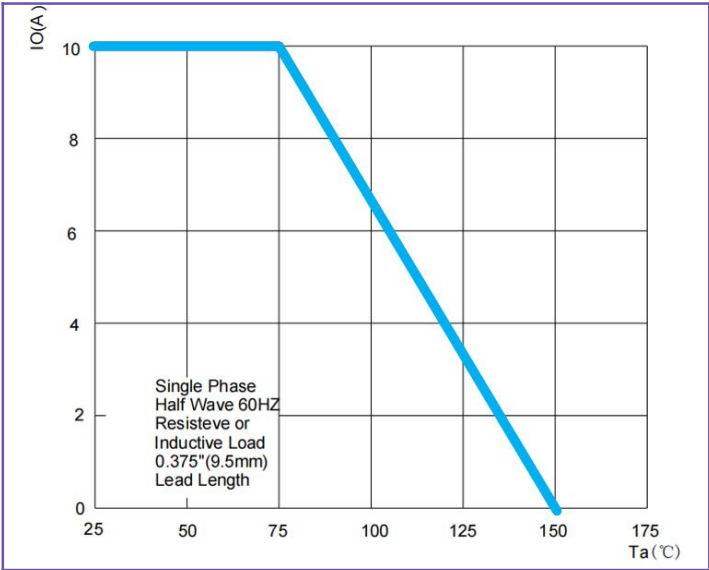


Figure 2.Maximum Non-Repetitive Forward Surge Current

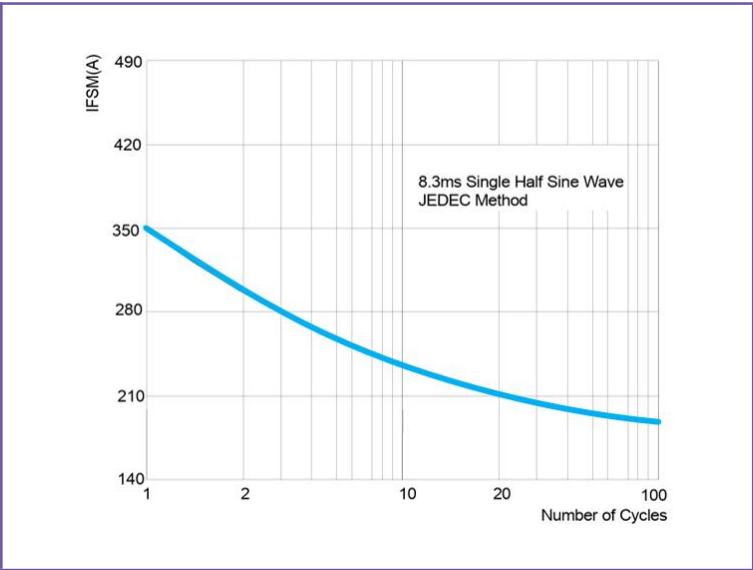


Figure 3.Typical Forward Characteristics

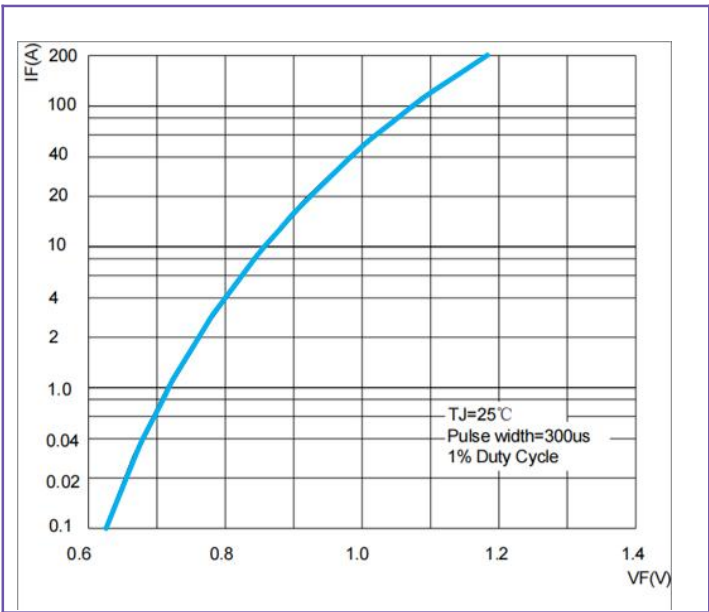
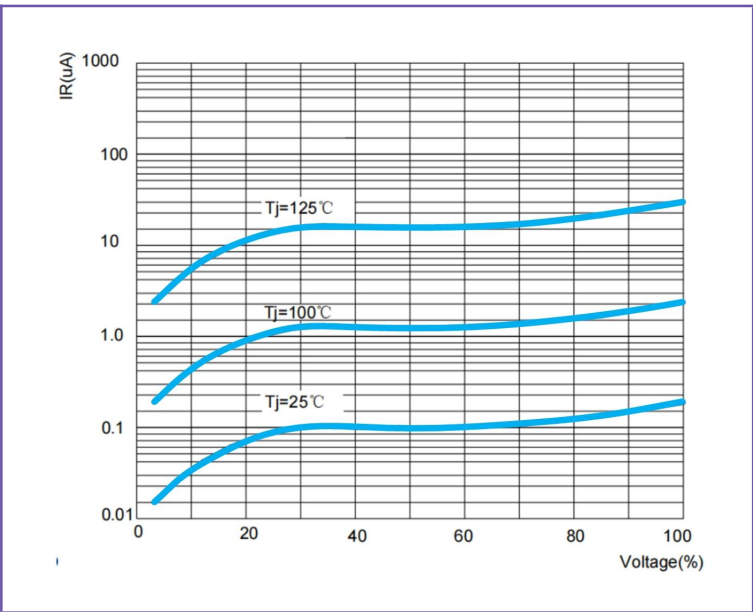


Figure 4.Typical Reverse Characteristics



Wave Soldering Parameters

