

Features

- Glass passivated die construction.
- Low forward voltage drop.
- High surge current capability.
- Plastic material-UL flammability 94V-0.

Mechanical Data

- Case:JB Molded Plastic.
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208.
- Polarity:As Marked on Case.
- Marking Information: Type Number.
- Mounting Position : Any

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	D10JB60	D10JB80	D10JB100	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}				
DC Blocking Voltage	V_{DC}				
RMS Reverse Voltage	V_{RMS}	420	560	700	V
Maximum average forward rectified current	$I_{F(AV)}$	10.0			A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200			A
$I^2 t$ Rating for fusing ($t < 8.3ms$)	$I^2 t$	166			A ² s
Forward Voltage per element @ $I_F=5.0$	V_F	1.1			V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	10.0 500			μA
Typical Junction Capacitance (Note 1)	C_J	48			pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	7			$^\circ C/W$
Storage temperature range	T_{STG}	-55 to +150			$^\circ C$
Operating junction temperature range	T_J	-55 to +150			$^\circ C$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C
2. Device mounted on 35mmx35mmx1.7mm Cu Plate Heatsink.

■ **Rating And Characteristic Curves**

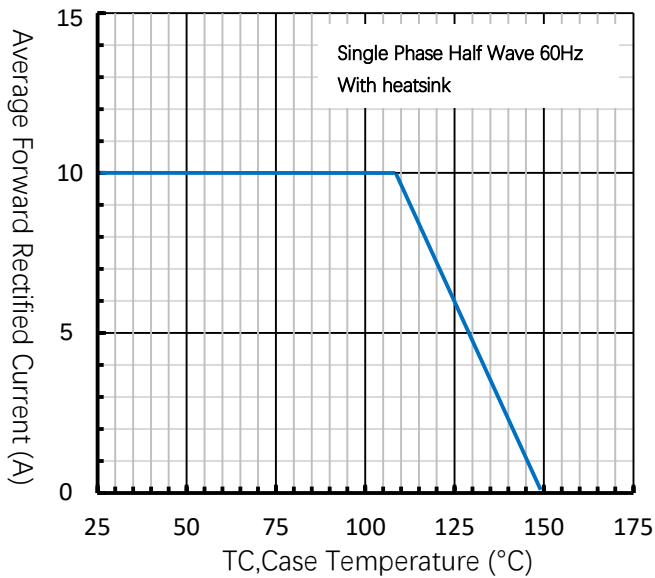


Fig.1 Forward Current Derating Curve

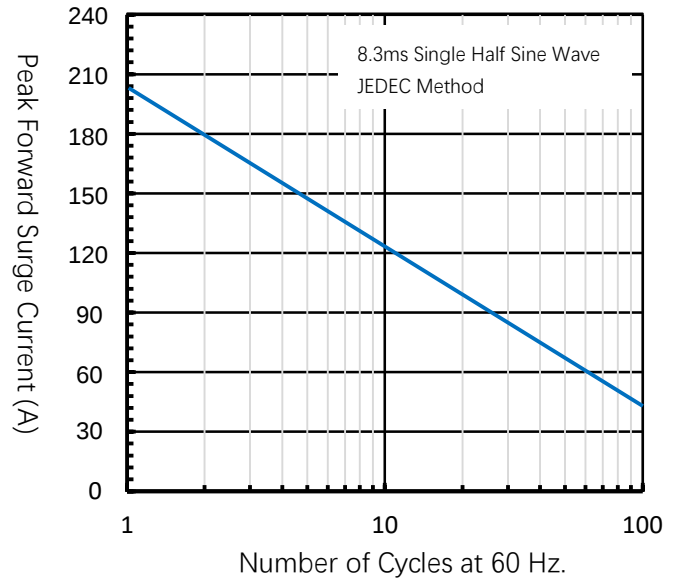


Fig.2 Forward Surge Current Capability

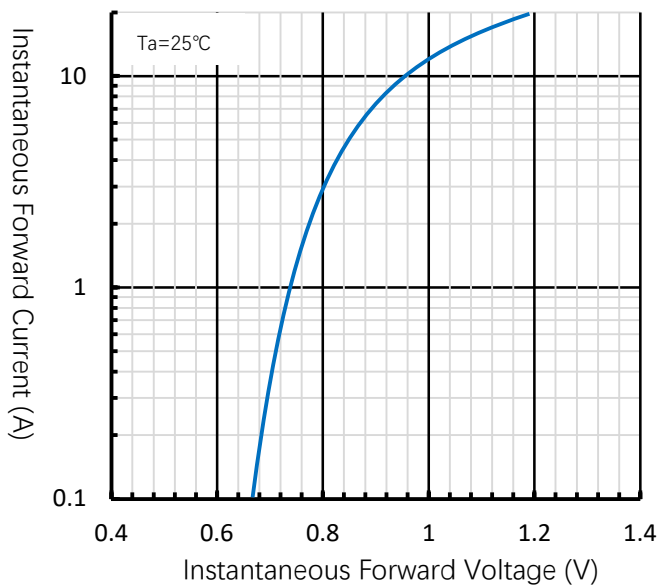


Fig. 3 Typical Forward Characteristic

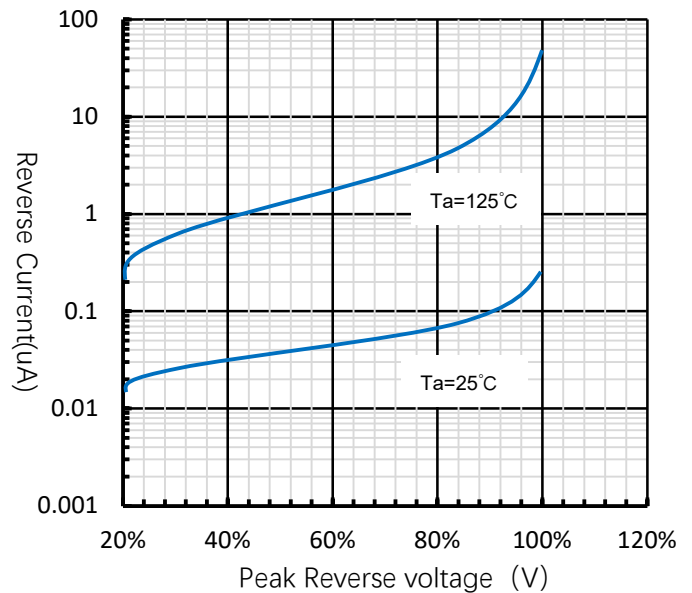


Fig. 4 Typical Reverse Characteristics

■ **Outline Dimensions** Dimensions in inches and (millimeters)

Package: JB

