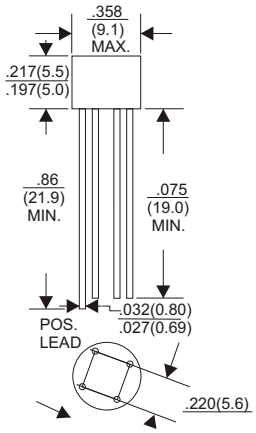
2W005M-2W10M

FEATURES

- Rating to 1000V PRVP
- Surge overload rating to 40 Amperes peak
- Glass passivated chip junctions
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Lead: silver plated copper, solderde plated
- Plastic material has UL flammability classification94V-O

WOM



Dimensions in inches and (millimeters)

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Reverse 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 Output current @T_A=40℃	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	60							A
Current squared time t < 8.3ms , Ta = 25℃	I^2t	15							A^2s

Thermal Characteristics

Characteristic	Symbol	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	UNITS
Typical thermal resistance junction to lead On aluminum substrate	$R_{\theta JA}$ $R_{\Theta JL}$	40 15							℃/W
Operating junction temperature range	T_J	-55 -150							℃
Storage temperature range	T_{STG}	-55 -150							℃

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	UNITS
Maximum instantaneous forward voltage at 2.0A	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	10 1.0							μA mA

Fig. 1 - Forward Current Derating Curve

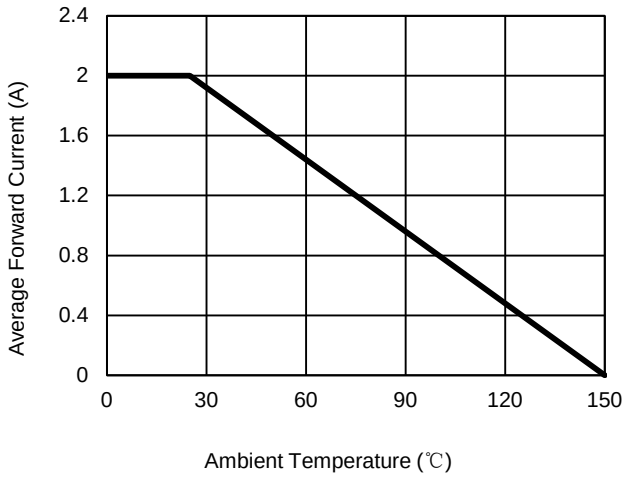


Fig. 2 - Maximum Non-Repetitive Surge Current

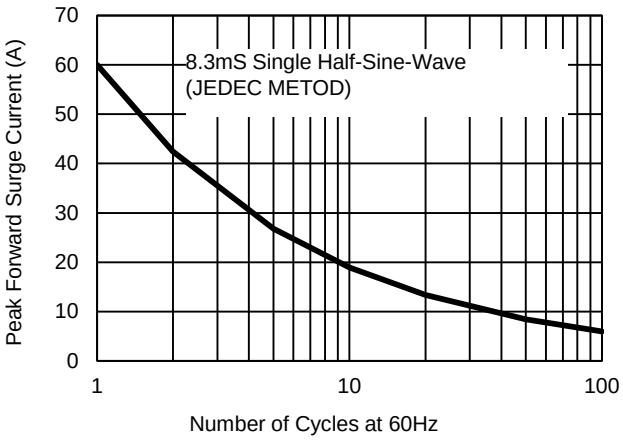


Fig. 3 - Typical Reverse Characteristics

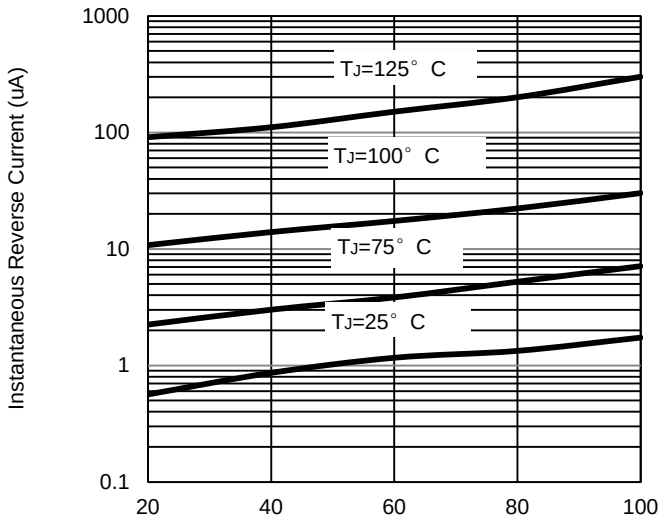


Fig. 4 - Typical Forward Characteristics

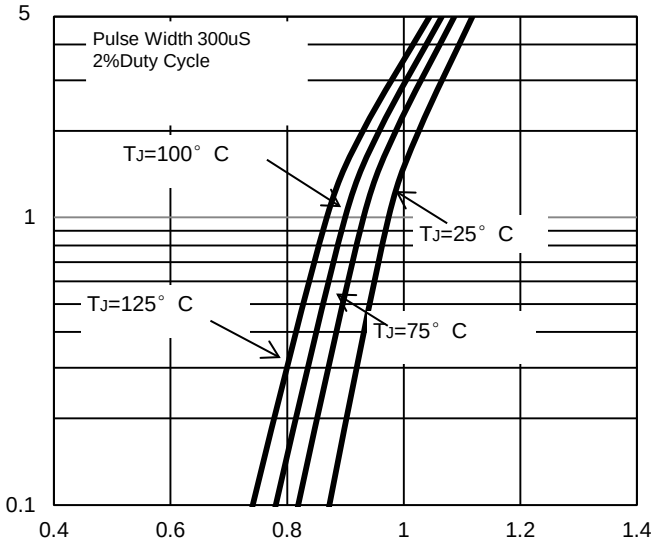
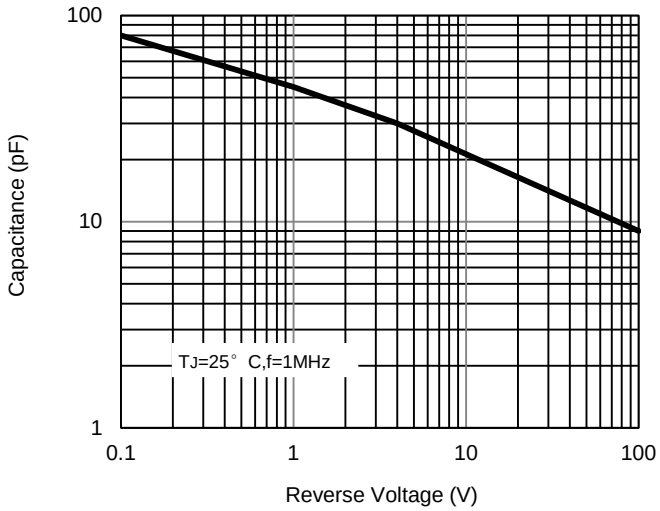


Fig. 5 - Typical Junction Capacitance



Device	Shipping
2W005M-2W10M	50unit/pipe