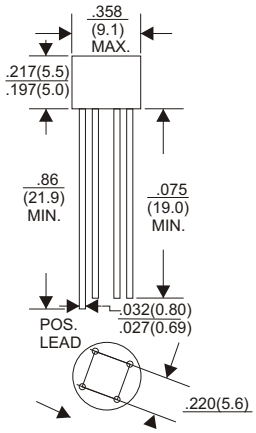
W005-W10
SILICON BRIDGE RECTIFIERS

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	W005	W01	W02	W04	W06	W08	W10	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Reverse Voltage	V_{RMS}	35	75	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℃	$I_{F(AV)}$	1.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	50							A
I²t Rating for fusing @Tj=25℃	I²t	10							A²S

Thermal Characteristics

Characteristic	Symbol	W005	W01	W02	W04	W06	W08	W10	UNITS
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	36 13							°C/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	W005	W01	W02	W04	W06	W08	W10	UNITS
Maximum instantaneous forward voltage at 1.5A	V_F	1.0							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 0.5							μA mA

FIG.1 -- TYPICAL FORWARD CURRENT DERATING CURVE

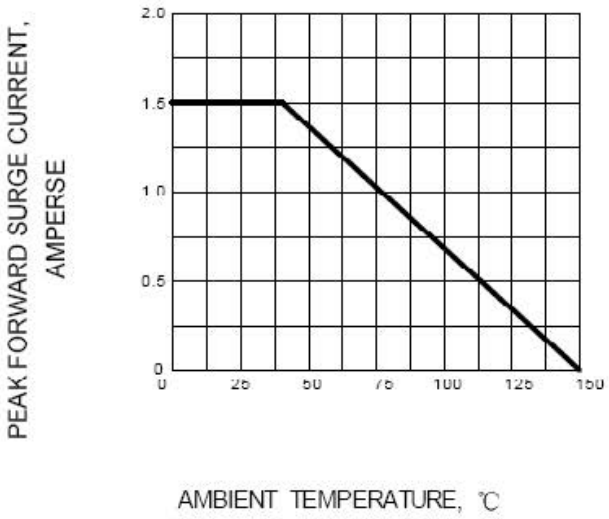


FIG.2 -- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

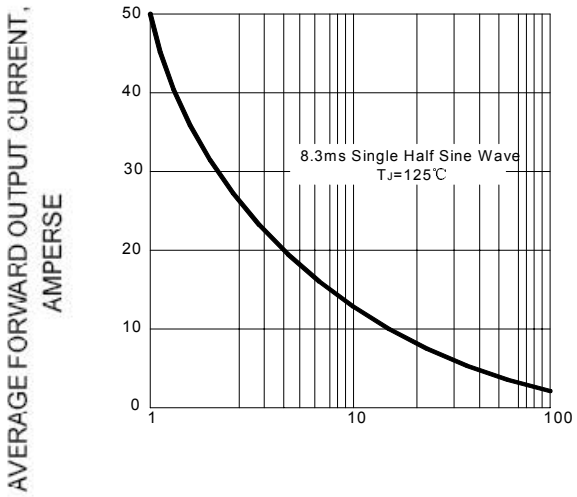


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

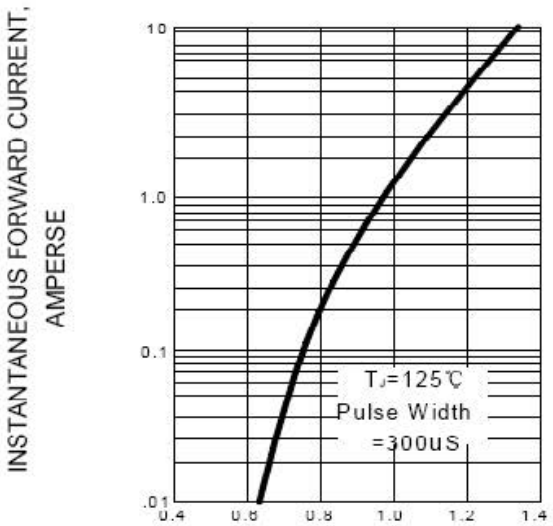
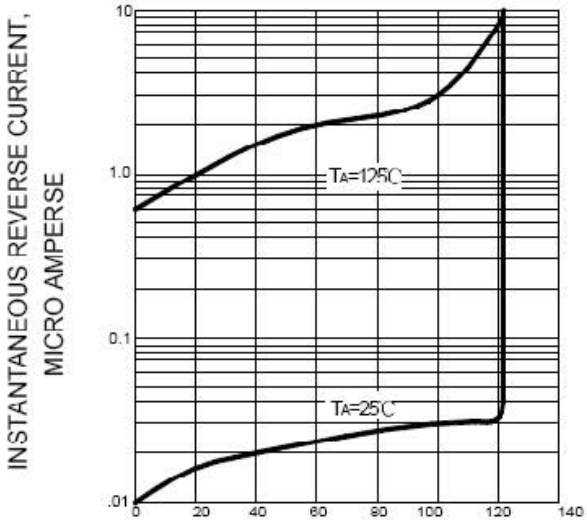


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC



Device	Shipping
W005-W10	50unit/pipe