VI. Bridge Rectifier

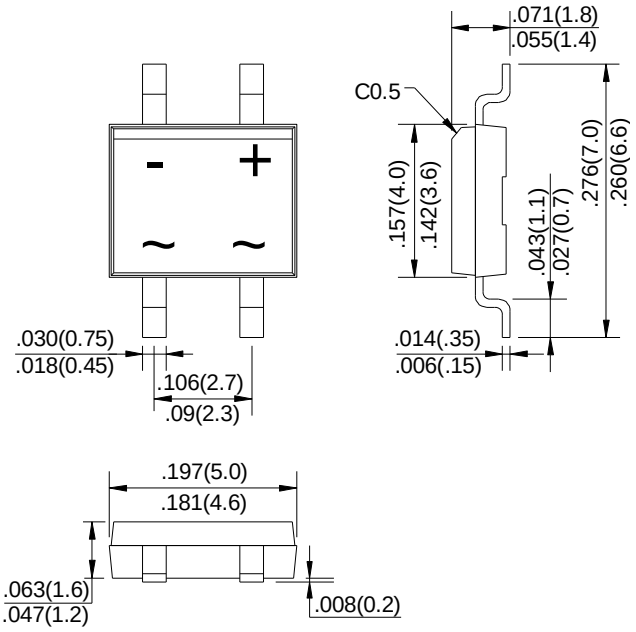
0.8A SMD Glass Passivated Bridge Rectifier (Low Profile Type)
MT05S~MT10S (Package: MTS)

FEATURES

- Glass passivated die construction
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation

MECHANICAL DATA

- Case : Molded plastic
- Polarity : Polarity symbols marked on body
- Mounting position : Any
- Handling precaution : None



Case: MTS
Dimensions in inches and (millimeters)

Ratings & Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristics	Symbol	MT 05S	MT 1S	MT 2S	MT 4S	MT 6S	MT 8S	MT 10S	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at Ta = 40℃ (Note 1)	Io	0.8							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load, (JEDEC Method)	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage drop per element at 0.8A DC	V_F	1.1							Volts
Maximum DC reverse current Tj=25℃ at rated DC blocking voltage Tj=125℃	I_R	5.0 500							μA
Typical junction capacitance per element (Note 2)	Cj	15							PF
Typical thermal resistance (Note 3)	Rth-JC	75							℃/ W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							℃

Notes:
1. Mounted on P. C. Board.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts D.C.
3. Thermal resistance junction to case.

Ratings and Characteristic Curves of MT05S~MT10S

FIG.1-FORWARD CURRENT DERATING CURVE

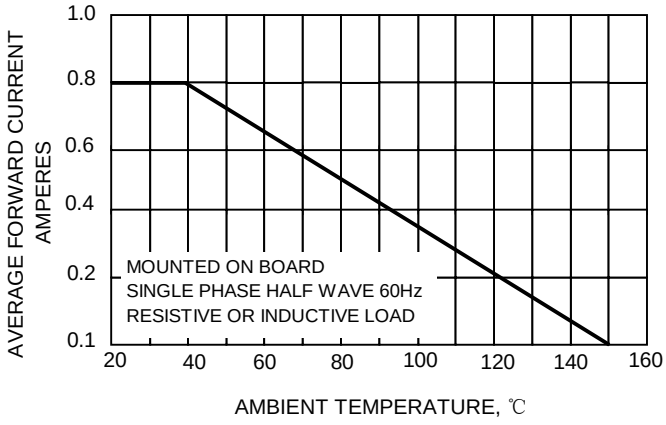


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

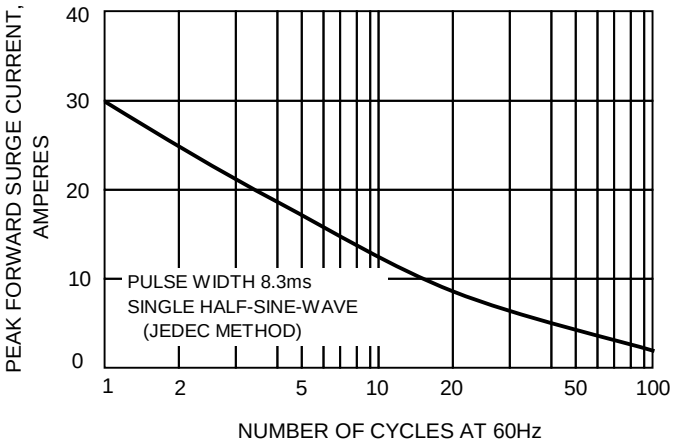


FIG.3-TYPICAL REVERSE CHARACTERISTICS

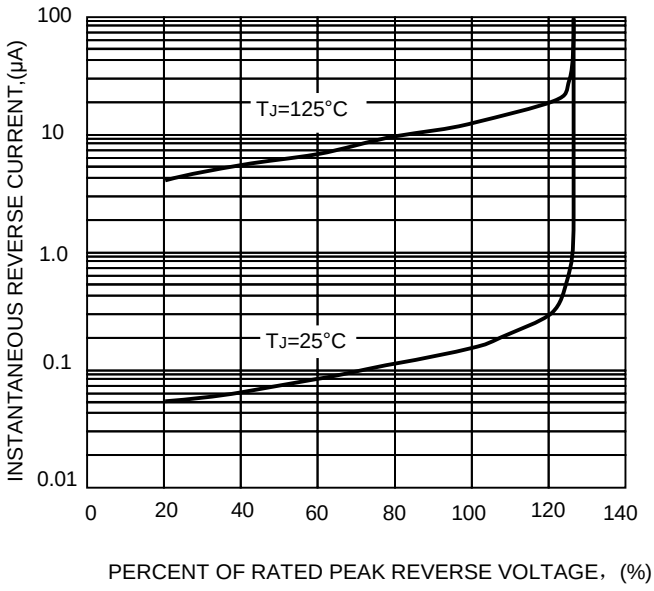


FIG.4-TYPICAL FORWARD CHARACTERISTICS

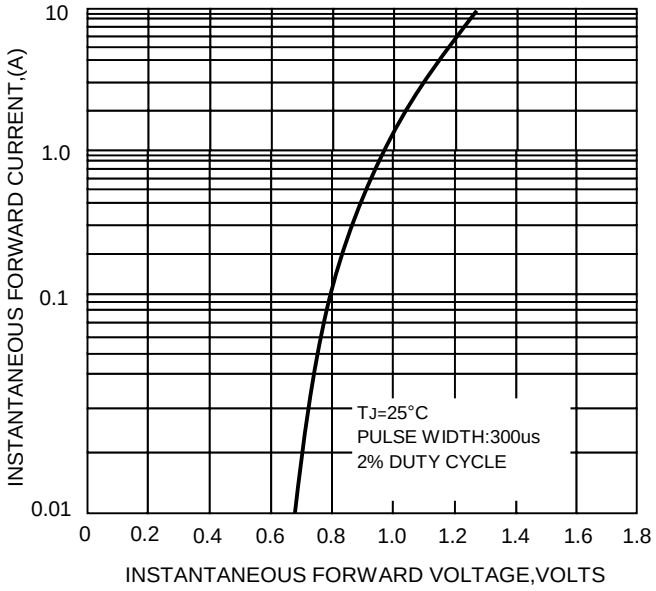


FIG.5-TYPICAL JUNCTION CAPACITANCE