VI. Bridge Rectifier

1.0A SMD Glass Passivated Bridge Rectifier (Low Profile Type) MT105S~MT110S (Package: MTS)

FEATURES

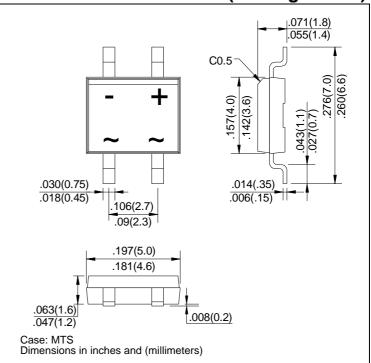
- · Glass passivated die construction
- Reliable low cost construction utilizing molded plastic technique
- · High surge current capability
- · Small size, simple installation

MECHANICAL DATA

· Case: Molded plastic

· Polarity: Polarity symbols marked on body

Mounting position : AnyHandling precaution : None



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 105S	MT 11S	MT 12S	MT 14S	MT 16S	MT 18S	MT 110S	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)	lo	1.0							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 1.0A	V _F	1.1							Volts
Maximum DC reverse current Tj=25 at rated DC blocking voltage Tj=125	I _R	5.0 500							μΑ
Typical junction capacitance per element (Note 2)	Cj	10							PF
Typical thermal resistance (Note 3)	Rth-JA	95							/ W
Typical thermal resistance (Note 4)	Rth-JC	30							/ 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 ambient.
- 4. Thermal resistance junction to case.

Ratings and Characteristic Curves of MT105S~MT110S

