TD1010F-HAF

Surface Mount Glass passivated Bridge Rectifier Reverse Voltage - 1000 V Forward Current - 1 A

Features

- · Glass passivated chip
- High Surge Current Capability
- Designed for Surface Mount Application
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

- Package: ABF
- Terminals: Solderable per MIL-STD-750, Method 2026

Maximum Ratings and Electrical characteristics

Single-phase, half-wave, 60 Hz, resistive or inductive load rating at 25°C, unless otherwise specified, for capacitive load, derate current by 20 %.

Descurator	Symbols	TD1010F	Units
Parameter	Marking	1010F	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Average Forward Current at $T_a = 50^{\circ}C$	I _{F(AV)}	1	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	I _{FSM}	50	А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1	V
Maximum DC Reverse Current at $T_a = 25 \degree C$ Rated DC Blocking Voltage $T_a = 125 \degree C$	I _R	5 50	μA
Typical Junction Capacitance ¹⁾	Cj	13	pF
Typical Thermal Resistance ²⁾	$R_{ extsf{ hetaJA}}$ $R_{ extsf{ hetaJL}}$	80 20	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150	°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

²⁾ Mounted on glass epoxy PC board with 4 X (5 X 5 mm²) copper pad.

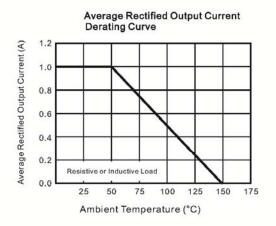


TOP DYNAMIC

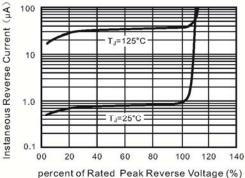
PINNING

PIN	DESCRIPTION					
1	Input Pin (~)					
2	Input Pin (~)					
3	Output Anode (+)					
4	Output Cathode (-)					

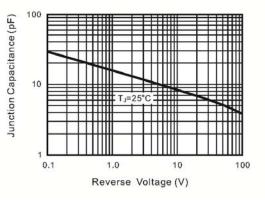


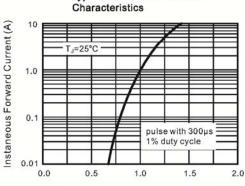


Typical Reverse Characteristics 100



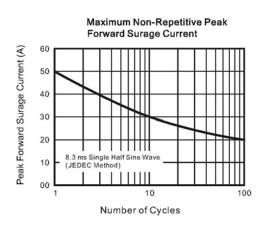
Typical Junction Capacitance





Typical Instaneous Forward



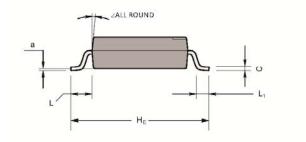


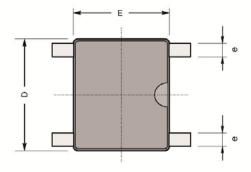


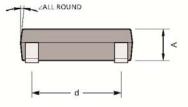
TOP DYNAMIC

PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

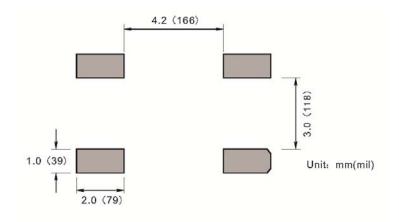






UNIT	Α	С	D	E	H_{E}	d	е	L	L1	а	Z
mm -	1.2	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.1	7 °
	1	0.15	4.9	4.2	6	3.6	0.5				

Recommended Soldering Footprint





TOP DYNAMIC

ABF

Dated: 25/12/2015 JD Rev: 02