TD10RF-HAF

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

Features

- Glass Passivated Chip
- High Surge Current Capability
- Halogen and Antimony Free(HAF), RoHS compliant

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

ABF Package

Mechanical Data

- Package: ABF
- Polarity: Polarity symbol marked on body

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 %.

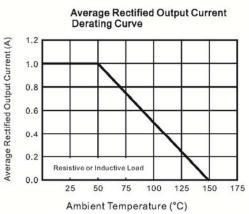
Devenator	Symbols	TD10RF	Units
Parameter	Marking	10R10	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Average Forward Current $T_a = 50^{\circ}C$	I _{F(AV)}	1	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	35	А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1	V
$ \begin{array}{c} \mbox{Maximum DC Reverse Current at} & T_a = 25\ ^\circ \mbox{C} \\ \mbox{Rated DC Blocking Voltage} & T_a = 125\ ^\circ \mbox{C} \end{array} $	I _R	5 50	μΑ
Typical Junction Capacitance 1)	Cj	13	pF
Typical Thermal Resistance ²⁾	R _{θJA} R _{θJL}	82 20	°C/W
Operating Junction and Storage Temperature Range	Τ _j , Τ _{stg}	- 55 to + 150	°C

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

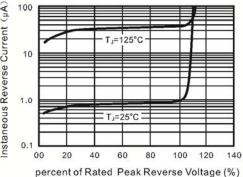
 $^{2)}\mbox{Mounted on glass epoxy PC board with 4 x (5 x 5 <math display="inline">\mbox{mm}^2$) copper pad.



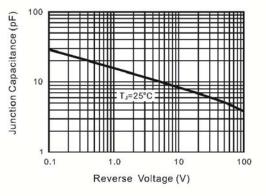
TOP DYNAMIC

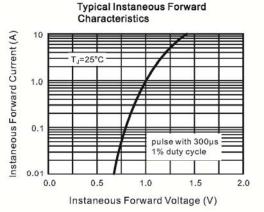


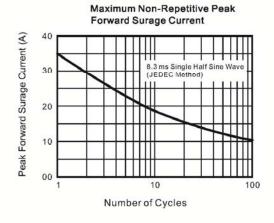
Typical Reverse Characteristics



Typical Junction Capacitance





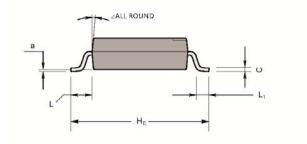


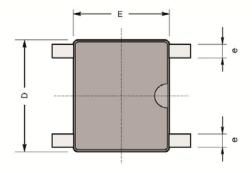


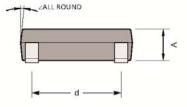
TOP DYNAMIC

PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

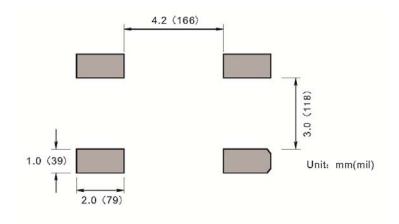






UNIT	А	С	D	Е	H_{E}	d	е	L	L1	а	Z
mm	1.2	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.1	7 °
	1	0.15	4.9	4.2	6	3.6	0.5				

Recommended Soldering Footprint





Dated: 29/01/2016 Rev: 01

TOP DYNAMIC

ABF