Elektronische Bauelemente

TF1S ~ TF10S

Voltage 100V ~ 1000V

1.0 Amp Surface Mount Bridge Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

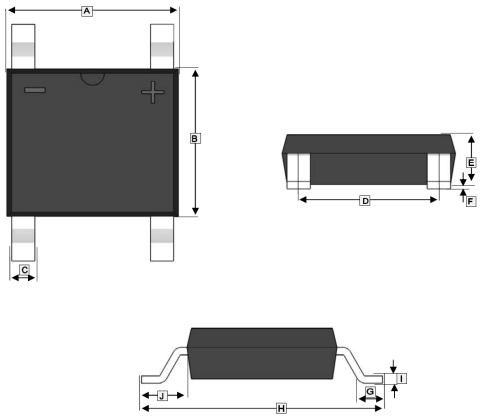
FEATURES

- High surge current capability
- Saves space on printed circuit boards
- Glass passivated structure

MECHANICAL DATA

- Terminals: Solderable per MIL-STD-750, Method 2026
- Case: TFS
- Mounting position: Any

TFS



	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.9	5.2	F	0.2 TYP.	
B	4.2	4.5	G	0.1TYP.	
C	0.5	0.7	H	6.0	6.4
D	3.8	4.2	I	0.15	0.22
E	1.3	1.5	J	0.95TYP.	

PACKAGE INFORMATION

Package	MPQ	Leader Size
TFS	5K	13 inch

MARKING

Part Number	Marking	Part Number	Marking
TF1S	10T1	TF6S	10T6
TF2S	10T2	TF8S	10T8
TF4S	10T4	TF10S	10T10

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25℃ ambient temperature unless otherwise s pecified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number						Unit
			TF1S	TF2S	TF4S	TF6S	TF8S	TF10S	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Current		$I_{F(AV)}$	1						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I_{FSM}	35						A
Maximum instantaneous forward voltage @ I_F =1A		V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	5						μA
	T_A=100℃		50						
	T_A=125℃		100						
Typical junction capacitance [1]		C_J	13						pF
Thermal resistance junction to ambient [2]		$R_{\theta JA}$	80						℃/W
Thermal resistance junction to lead [2]		$R_{\theta JL}$	16						℃/W
Operating and Storage Temperature range		T_J, T_{STG}	-55~150						℃

Note:
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×（2.54×2.54mm2）copper pad.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Average Rectified Output Current Derating Curve

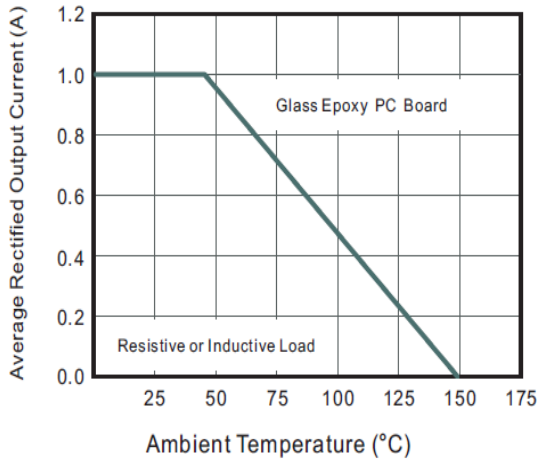

Fig.2 Typical Reverse Characteristics

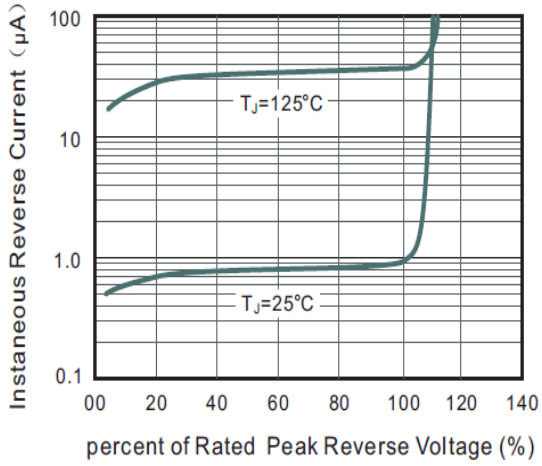

Fig.3 Typical Instaneous Forward Characteristics

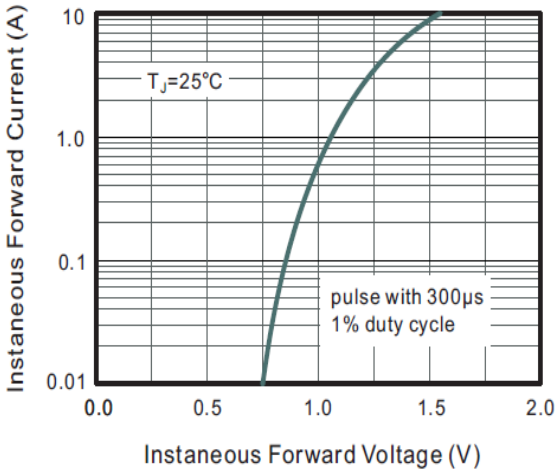

Fig.4 Typical Junction Capacitance

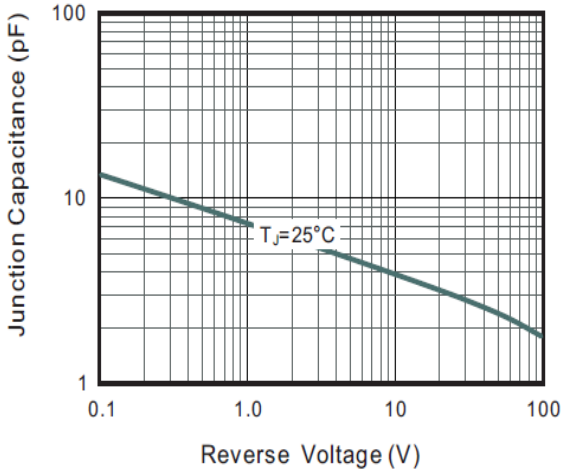

Fig.5 Maximum Non-Repetitive Peak Forward Surage Current