

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

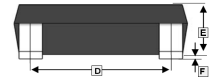
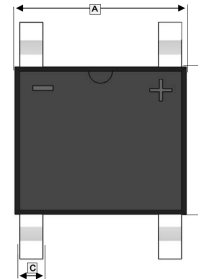
PACKAGE INFORMATION

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

TFS



	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.9	5.2	F	0.2 TYP.	
B	4.2	4.5	G	0.1 TYP.	
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	0.95 TYP.	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. 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 _{θJA}	80						℃/W
Thermal resistance junction to lead ²		R _{θJL}	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.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Average Rectified Output Current Derating Curve

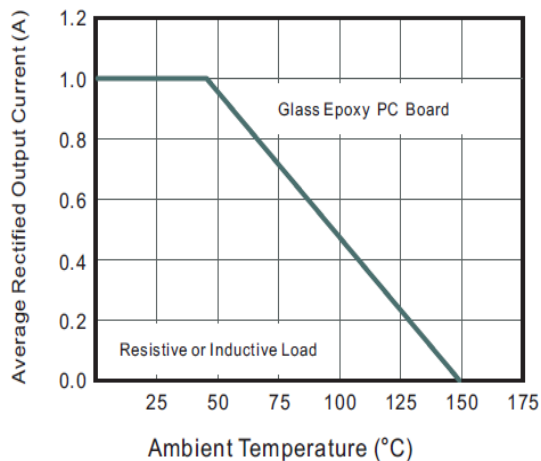


Fig.2 Typical Reverse Characteristics

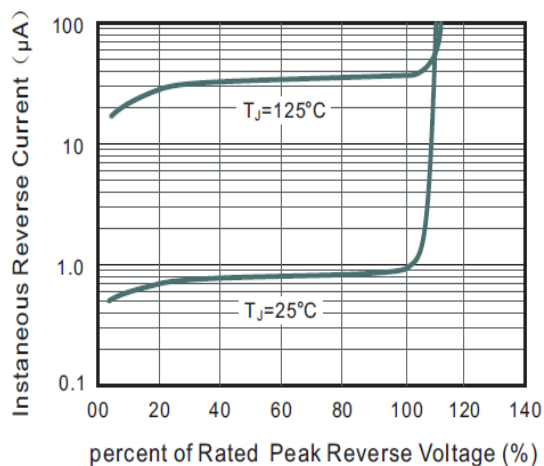


Fig.3 Typical Instantaneous Forward Characteristics

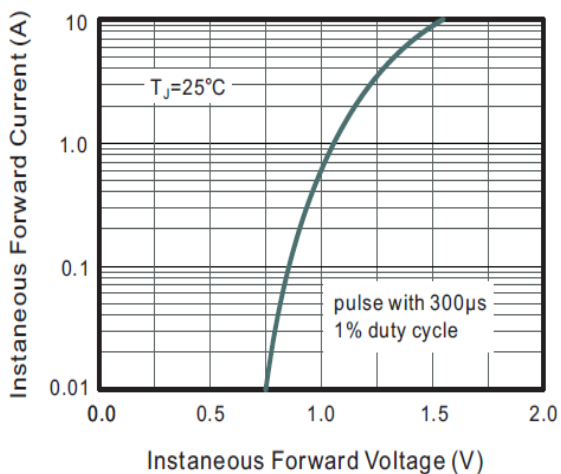


Fig.4 Typical Junction Capacitance

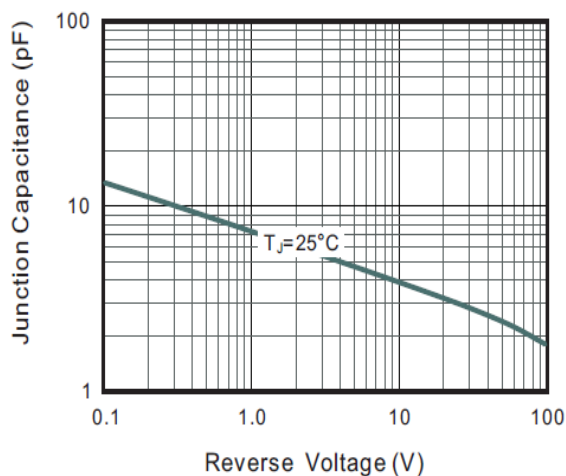


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

