

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

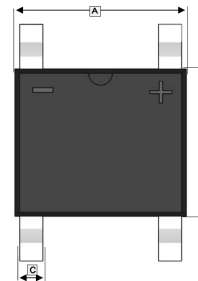
MECHANICAL DATA

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

PACKAGE INFORMATION

Package	MPQ	Leader Size
TFS	5K	13 inch

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.	

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°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

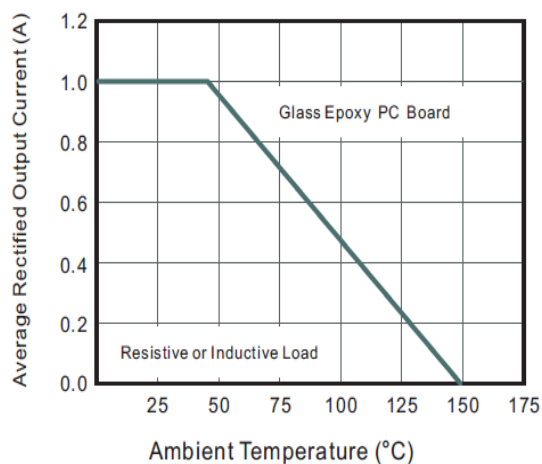


Fig.2 Typical Reverse Characteristics

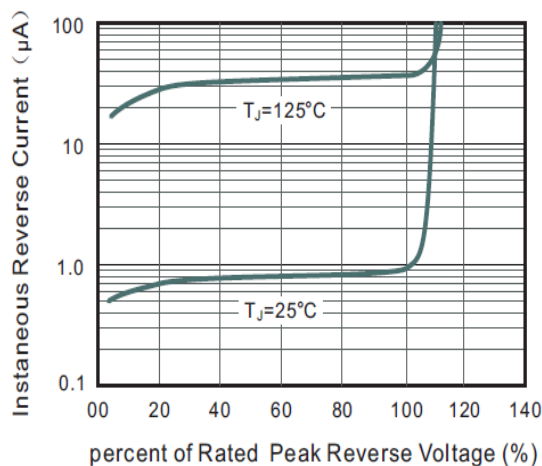


Fig.3 Typical Instantaneous Forward Characteristics

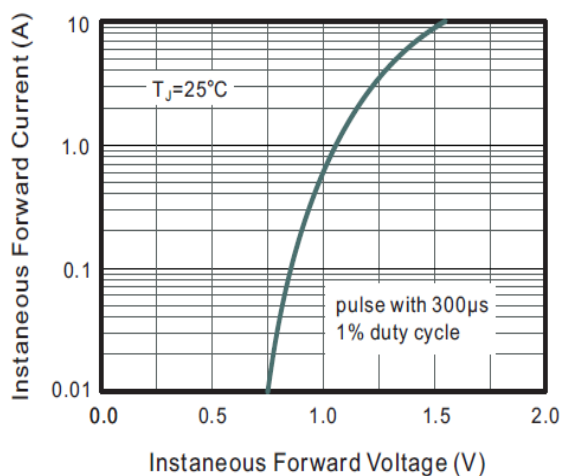


Fig.4 Typical Junction Capacitance

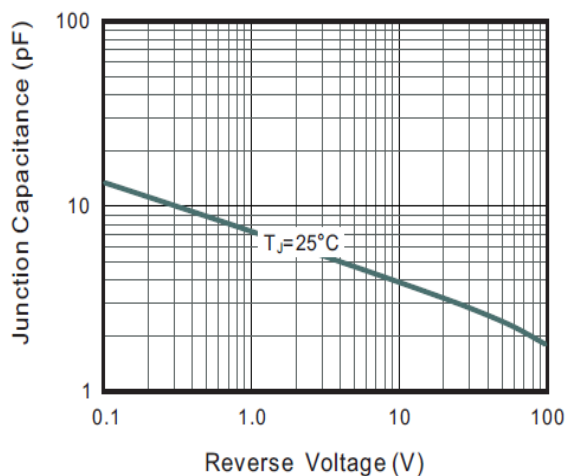


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

