

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

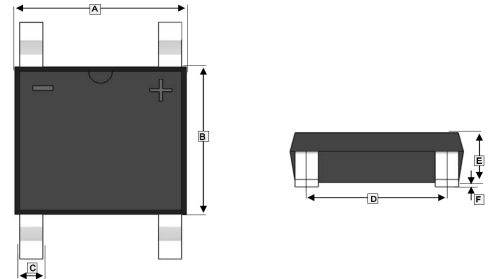
**MECHANICAL DATA**

- 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
TF201S	ABS201	TF206S	ABS206
TF202S	ABS202	TF208S	ABS208
TF204S	ABS204	TF210S	ABS210

**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%.)

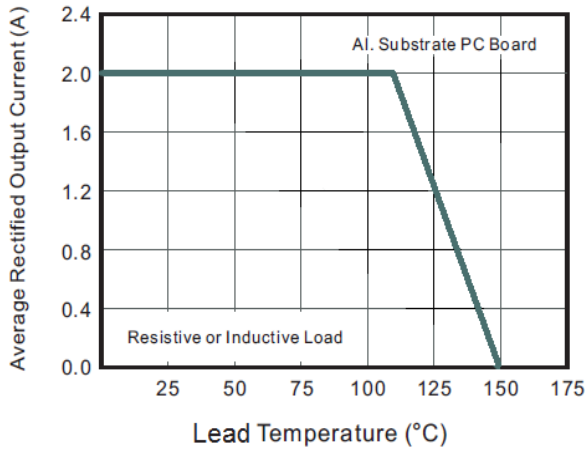
Parameter	Symbol	Part Number						Unit
		TF 201S	TF 202S	TF 204S	TF 206S	TF 208S	TF 210S	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Maximum Average Forward Current @ $T_L=110^\circ\text{C}$	$I_{F(AV)}$	2						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50						A
Maximum instantaneous forward voltage @ $I_F=1\text{A}$	$V_F$	1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	5						$\mu\text{A}$
	$T_A=125^\circ\text{C}$	500						
Typical junction capacitance <sup>1</sup>	$C_J$	25						pF
Thermal resistance junction to ambient <sup>2</sup>	$R_{\theta JA}$	80						$^\circ\text{C/W}$
Thermal resistance junction to lead <sup>2</sup>	$R_{\theta JL}$	16						$^\circ\text{C/W}$
Operating and Storage Temperature range	$T_J, T_{STG}$	-55~150						$^\circ\text{C}$

Note:

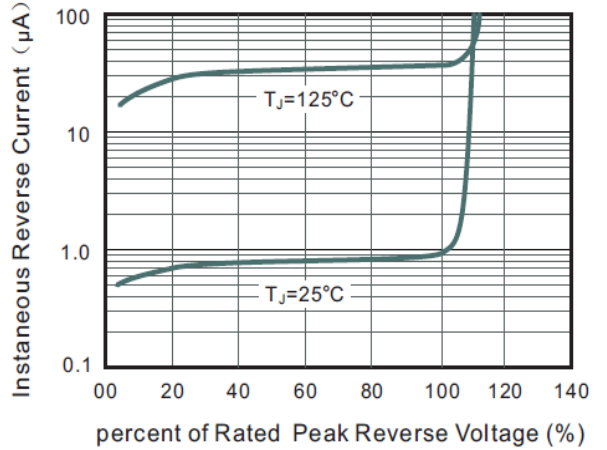
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4x2.54mm<sup>2</sup> copper pad.

**RATINGS AND CHARACTERISTIC CURVES**

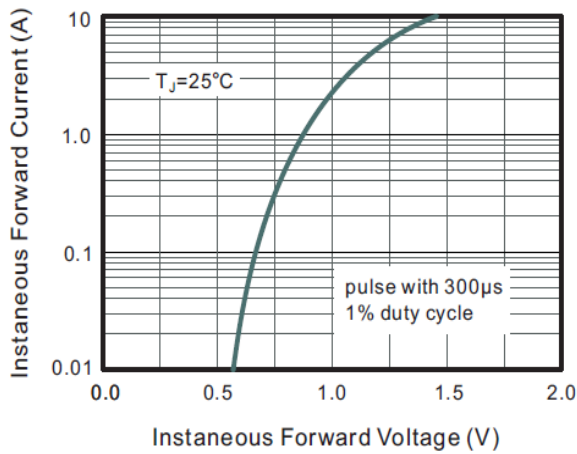
**Fig.1 Average Rectified Output Current Derating Curve**



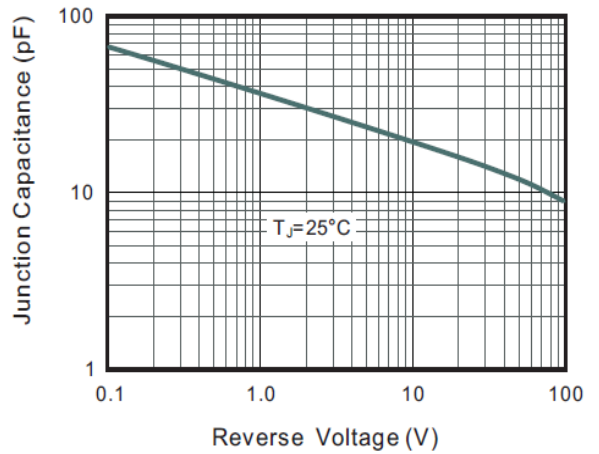
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

