Elektronische Bauelemente

TF201S ~ TF210S

Voltage 100V ~ 1000V

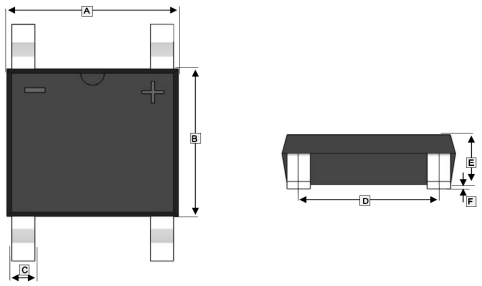
2.0 Amp Surface Mount Bridge Rectifiers

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

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.	

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

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
		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℃	$I_{F(AV)}$	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=1A	V_F	1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=25℃	I_R	5						μA
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=125℃	I_R	500						μA
Typical junction capacitance [1]	C_J	25						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 4×2.54mm^2 copper pad.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Average Rectified Output Current Derating Curve

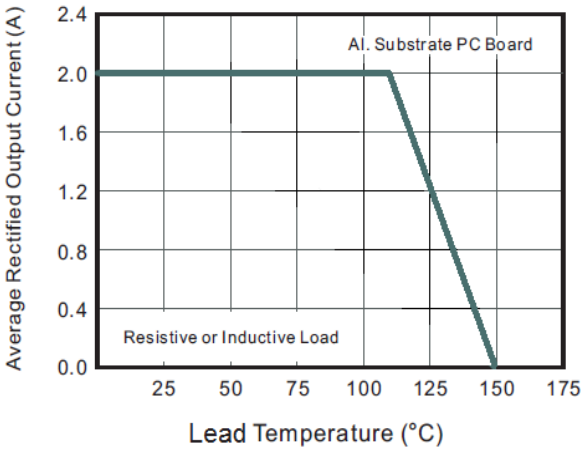


Fig.2 Typical Reverse Characteristics

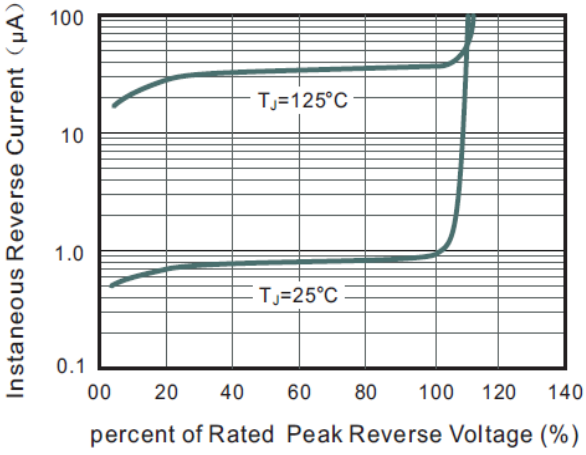


Fig.3 Typical Instaneous Forward Characteristics

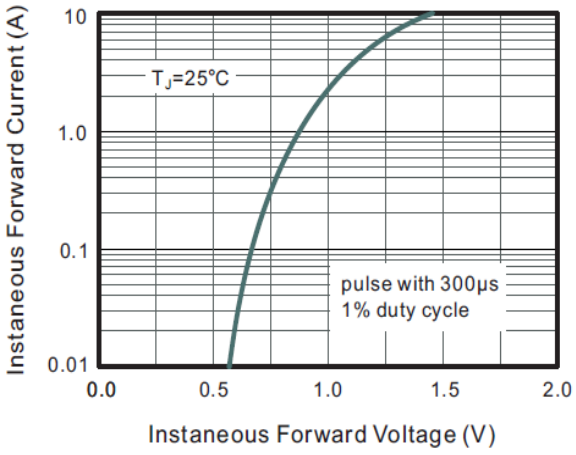


Fig.4 Typical Junction Capacitance

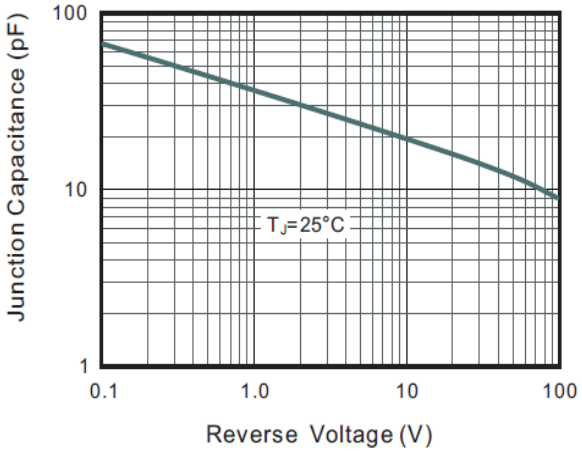


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current