Elektronische Bauelemente

TF201S-C~TF210S-C

Voltage 100V~1000V

2.0 Amp Surface Mount Bridge Rectifiers

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

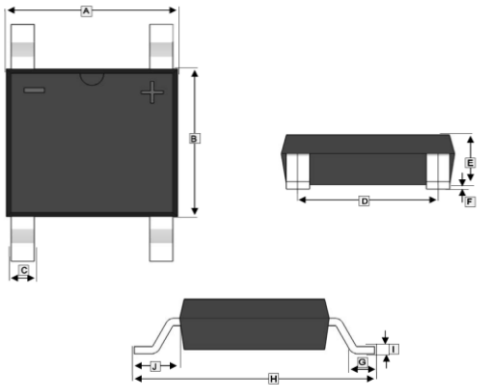
FEATURES

- High Surge Current Capability
- Saves Space on Printed Circuit Boards
- Glass Passivated Structure

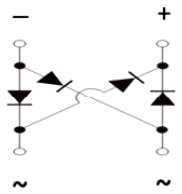
MECHANICAL DATA

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

TFS



REF.	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-C	ABS201	TF206S-C	ABS206
TF202S-C	ABS202	TF208S-C	ABS208
TF204S-C	ABS204	TF210S-C	ABS210

PACKAGE INFORMATION

Package	MPQ	Leader Size
TFS	5K	13 inch

ORDER INFORMATION

Part Number	Type
TF201S-C~TF210S-C	Lead (Pb)-free and Halogen-free

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-C	TF 202S-C	TF 204S-C	TF 206S-C	TF 208S-C	TF 210S-C	
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°C	$I_{F(AV)}$	2						A
Peak Forward Surge Current, 8.3ms 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°C	I_R	5						μA
	T_A=125°C		500						
Typical Junction Capacitance [1]		C_J	25						pF
Thermal Resistance Junction-Ambient [2]		$R_{\theta JA}$	80						°C/W
Thermal Resistance Junction-Lead [2]		$R_{\theta JL}$	16						
Operating & Storage Temperature Range		T_J, T_{STG}	-55~150						°C

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

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Average Rectified Output Current Derating Curve

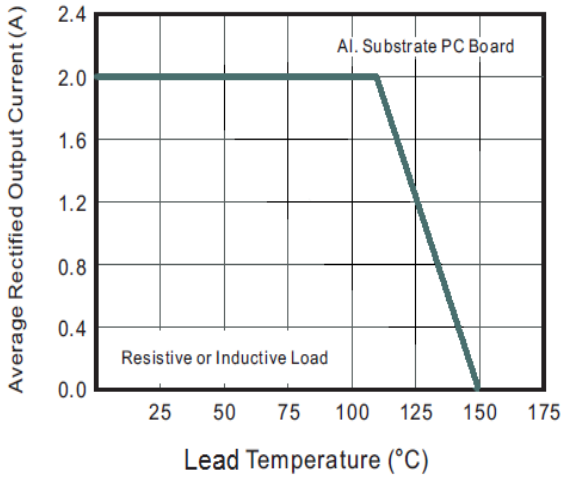


Fig.2 Typical Reverse Characteristics

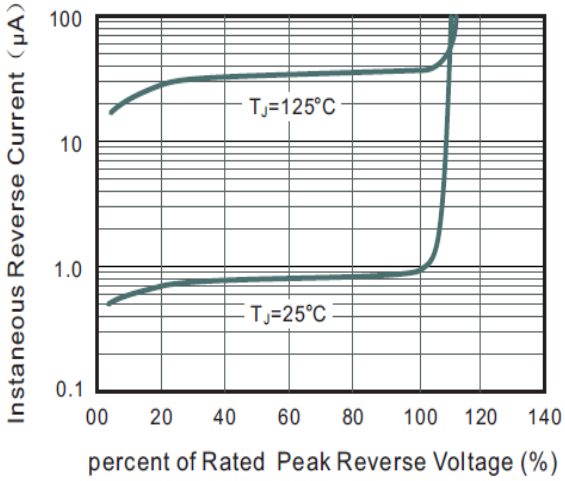


Fig.3 Typical Instaneous Forward Characteristics

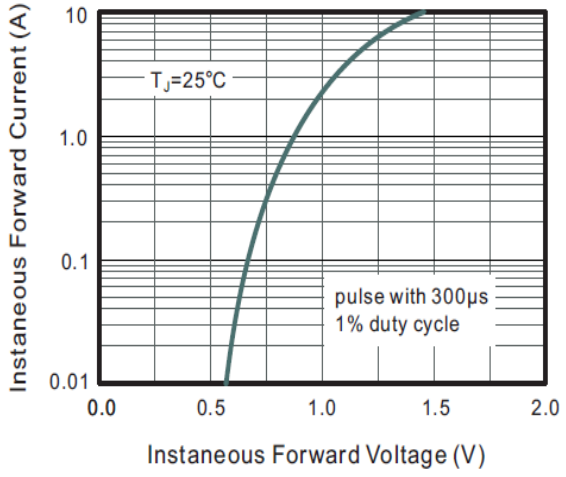


Fig.4 Typical Junction Capacitance

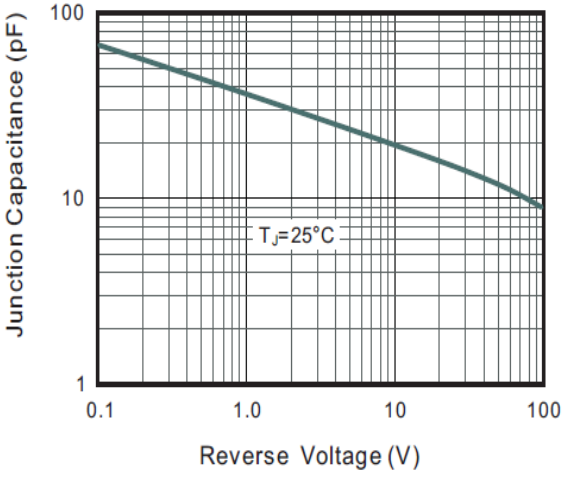


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

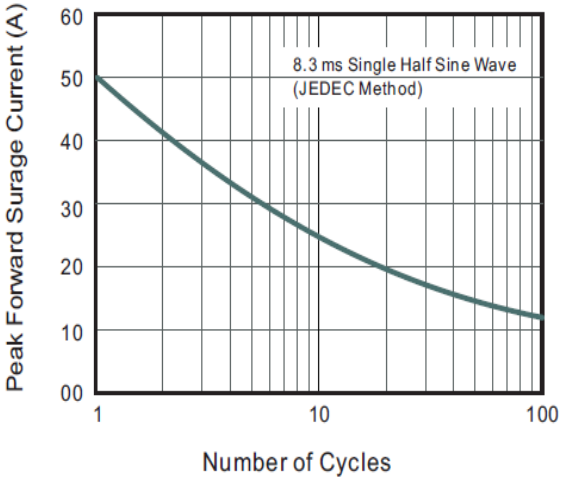
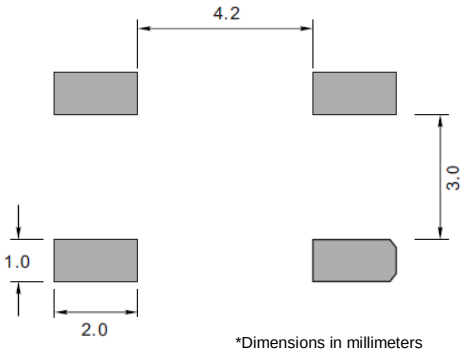


Fig.6 Mounting Pad Layout



*Dimensions in millimeters