

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

FEATURES

- Glass Passivated Chip Junction
- High Surge Current Capability

MECHANICAL DATA

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

MARKING

Part Number	Marking	Part Number	Marking
TB24S	TB24S	TB210S	TB210S
TB26S	TB26S	TB220S	TB220S
TB28S	TB28S		

PACKAGE INFORMATION

Package	MPQ	Leader Size
TFS	5K	13 inch

ORDER INFORMATION

Part Number	Type
TB24S~TB220S	Lead (Pb)-free
TB24S-C~TB220S-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

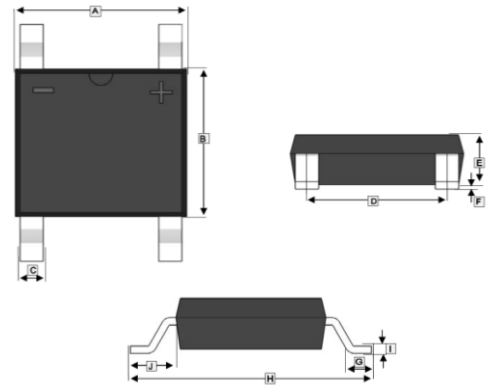
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number					Unit
		TB24S	TB26S	TB28S	TB210S	TB220S	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	80	100	200	V
Maximum RMS Voltage	V_{RMS}	28	42	56	70	140	V
Maximum DC Blocking Voltage	V_{DC}	40	60	80	100	200	V
Maximum Average Forward Current	$I_{F(AV)}$	2					A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50		40			A
Maximum instantaneous forward voltage @ $I_F=2A$	V_F	0.55	0.70	0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	0.5			0.3		mA
	$T_A=100^\circ C$	10			5		
Typical Junction Capacitance ¹	C_J	220	80				pF
Thermal Resistance Junction to Ambient ²	$R_{\theta JA}$	70					°C/W
Thermal Resistance Junction to Case ²	$R_{\theta JC}$	16					
Operating and Storage Temperature range	T_J, T_{STG}	125, -55~150					°C

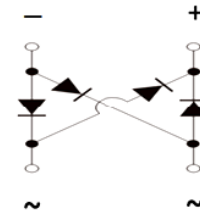
Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 1.5mm² copper pad.

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.	



RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

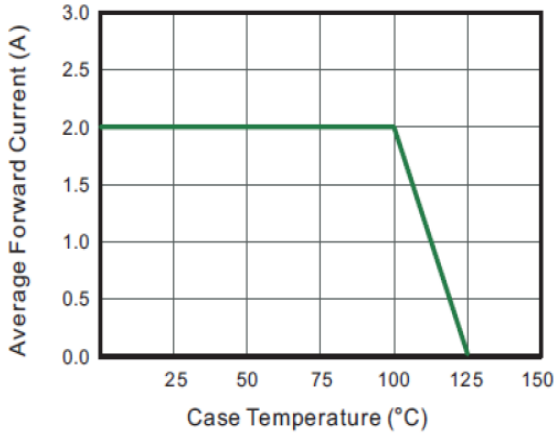


Fig.2 Typical Reverse Characteristics

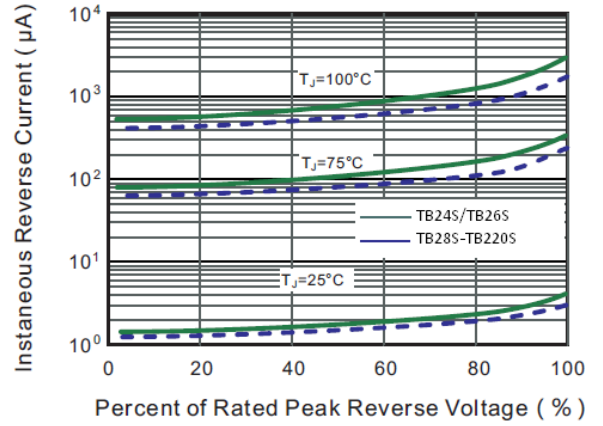


Fig.3 Typical Forward Characteristic

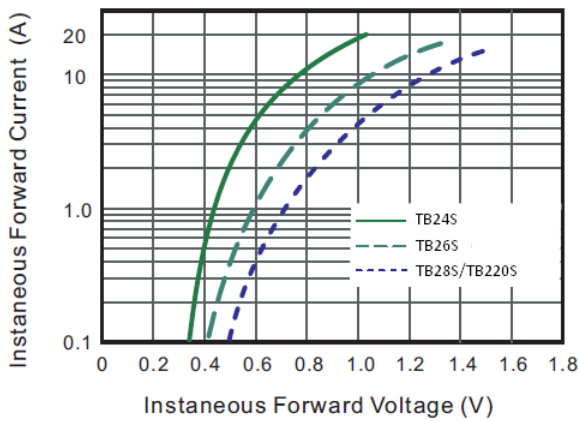


Fig.4 Typical Junction Capacitance

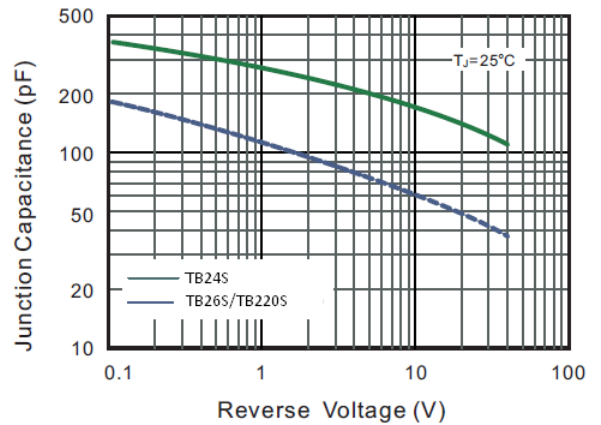


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

