

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-C	TB24S	TB210S-C	TB210S
TB26S-C	TB26S	TB220S-C	TB220S
TB28S-C	TB28S		

PACKAGE INFORMATION

Package	MPQ	Leader Size
TFS	5K	13 inch

ORDER INFORMATION

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

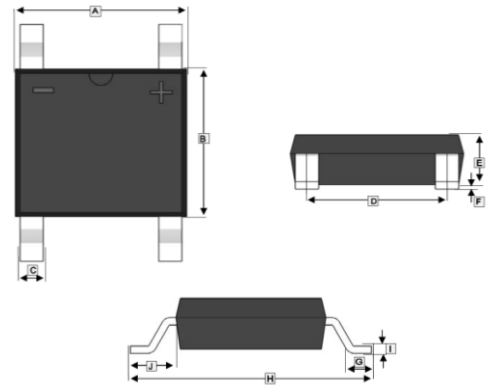
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave 60Hz, resistive or inductive load, for capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number					Unit
		TB24S-C	TB26S-C	TB28S-C	TB210S-C	TB220S-C	
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}	-55~150					°C

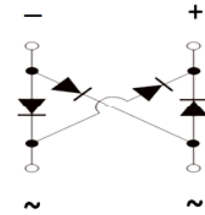
Notes:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4x1.5"x1.5"(3.81x3.81 cm) 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	0.6 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

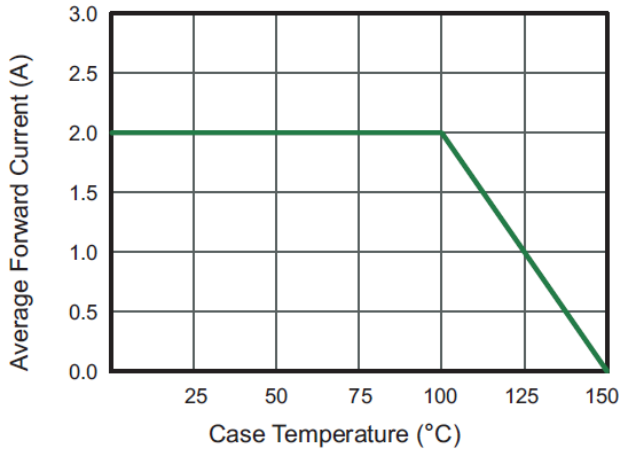


Fig.2 Typical Reverse Characteristics

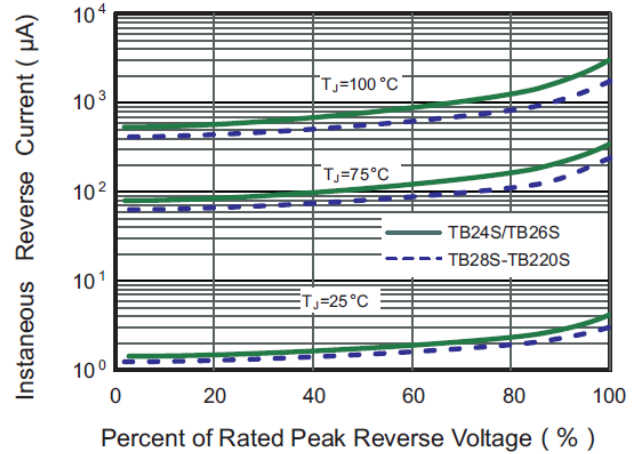


Fig.3 Typical Forward Characteristic

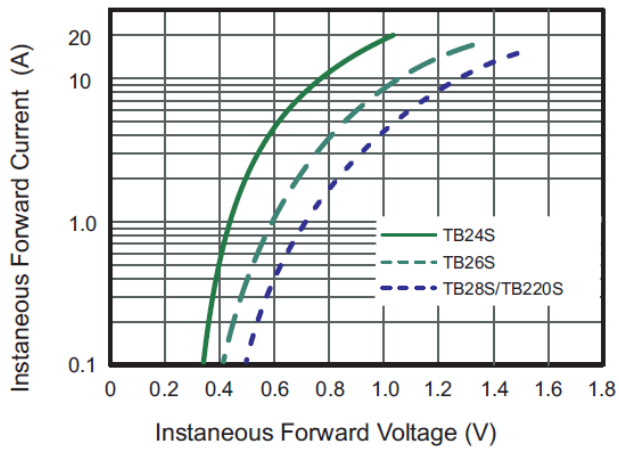


Fig.4 Typical Junction Capacitance

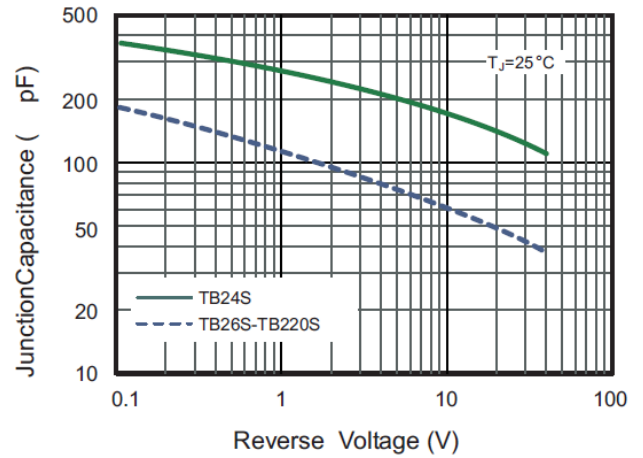


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

