GLASS PASSIVATED

BRIDGE RECTIFIERS

REVERSE VOLTAGE - **600**Volts

FORWARD CURRENT - **4.0** Amperes

Features

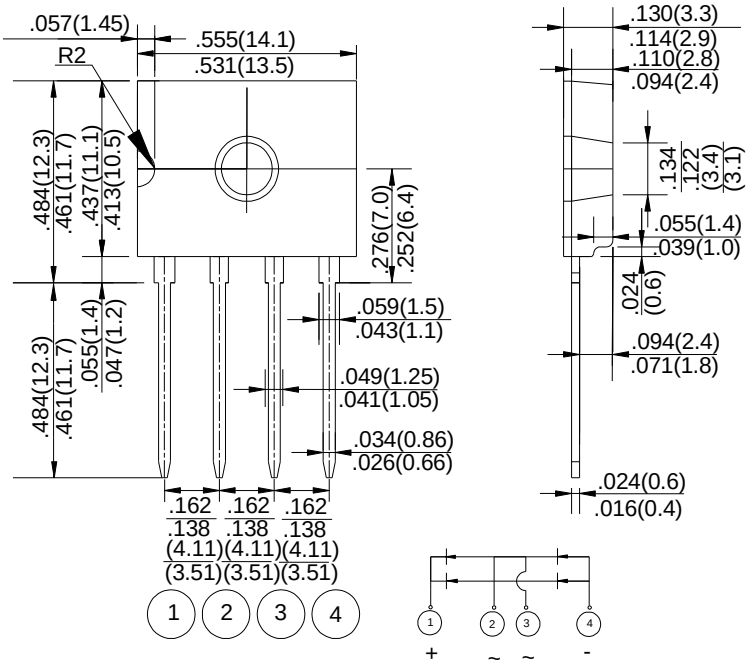
- Glass passivated chip junction
- High case dielectric strength
- High surge current capability

Ideal for printed circuit board

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, and telecommunication applications.

Dimensions In Inches and (milimeters)



D3K

Part Number Code

T	D	4	K	B	6	L
1	2	3	4	5	6	7

Product Type	
TSK	TD4KB series

Peak Repetitive Reverse Voltage (V)	
6	600V

VF Type	
F	0.95
L	0.92
U	0.90/0.89

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

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CHARACTERISTICS	SYMBOL	TD4KB6L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Output Current @ T_C=138 (with heatsink)	$I_{(AV)}$	4	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	135	A
Maximum Forward Voltage at 4.0A DC	V_F	0.92	V
I^2t Rating for Fusing (t<8.3ms)	I^2t	76	A^2s
Typical Thermal Resistance without heatsink	R_{Ja}	55	℃/W
with heatsink	R_{JC}	127	
without heatsink	R_{JL}	15	
Maximum DC Reverse Current @ T_a=25	I_R	10.0	μA
at Rated DC Blocking Voltage @ T_a=125		500	
Operating Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

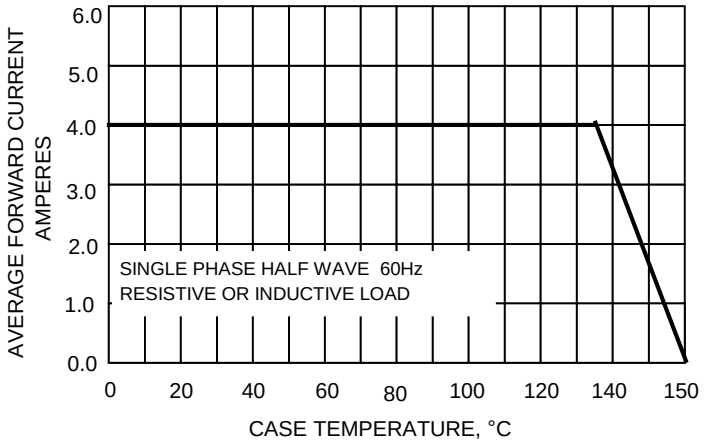

FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

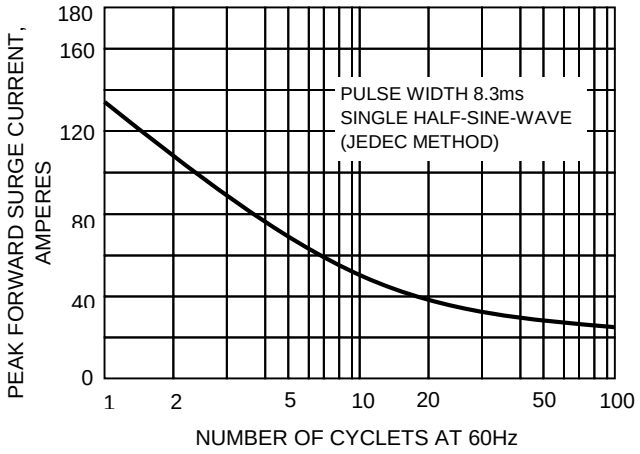

FIG.3-TYPICAL JUNCTION CAPACITANCE

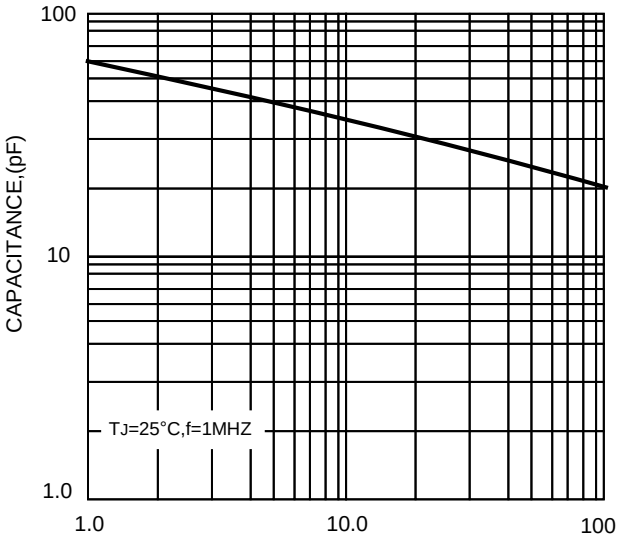

FIG.4-TYPICAL FORWARD CHARACTERISTICS

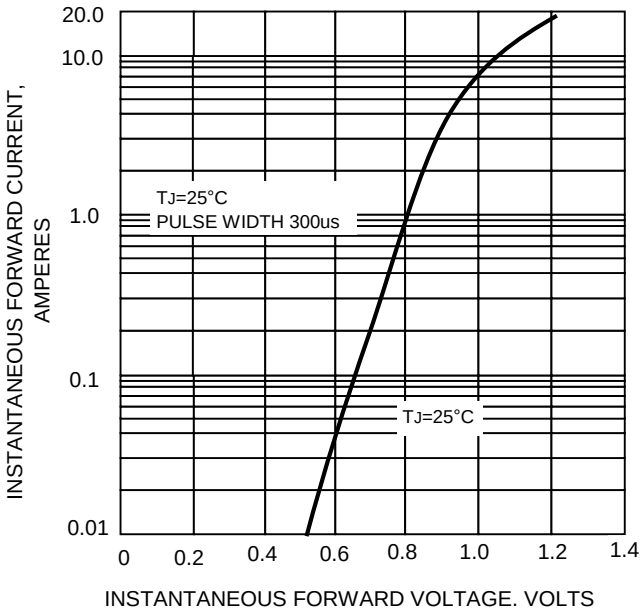

FIG.5-TYPICAL REVERSE CHARACTERISTICS