

**GLASS PASSIVATED
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **600**Volts
FORWARD CURRENT - **6.0** Amperes

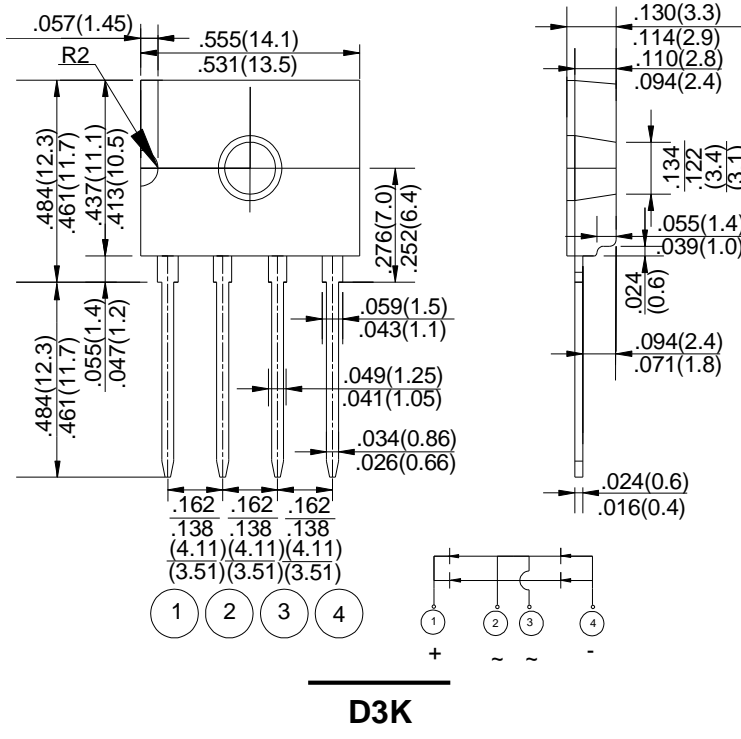
Features

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board

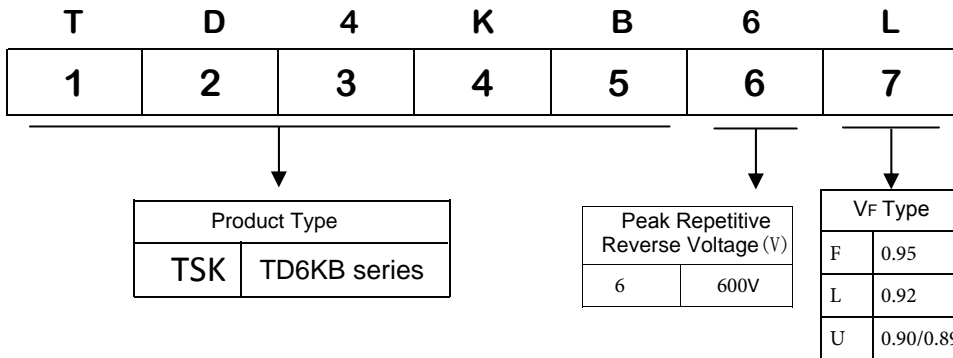
Typical Applications

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

Dimensions In Inches and (milimeters)



Part Number Code



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TD6KB6L	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 =140 (with heatsink)	I _(AV)	6	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	150	A
Maximum Forward Voltage at 3.0A DC	V _F	0.92	V
I ² t Rating for Fusing (t<8.3ms)	I ² t	93	A ² s
Maximum Typical Thermal Resistance without heatsink	R _{Ja}	55	°C/W
with heatsink	R _{JC}	127	
without heatsink	R _{JL}	15	
Maximum DC Reverse Current @ T _a =25 at Rated DC Blocking Voltage @ T _a =125	I _R	10.0 500	μA
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

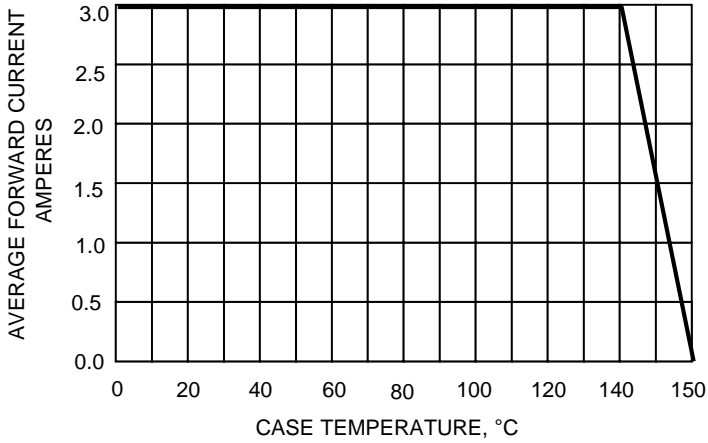


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

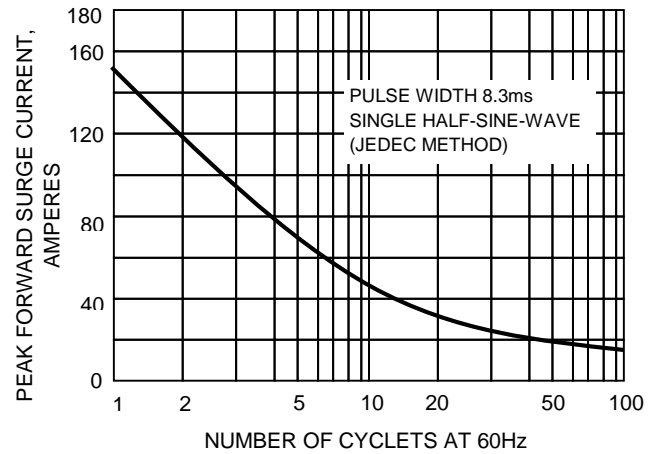


FIG.3-TYPICAL FORWARD CHARACTERISTICS

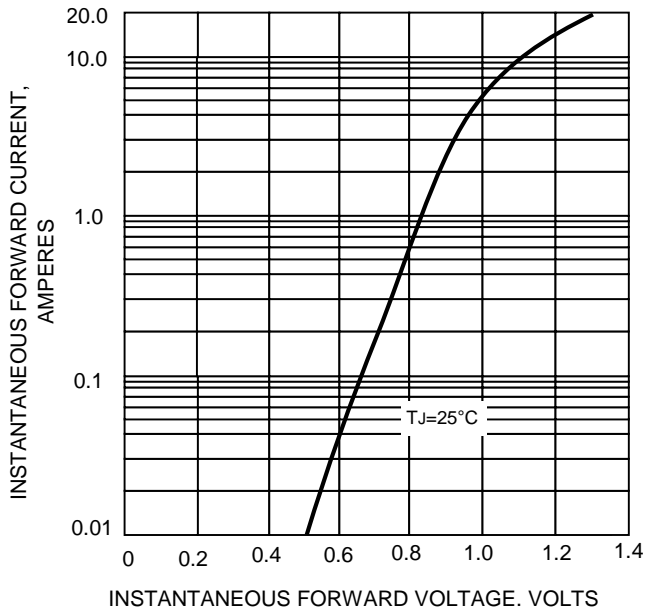
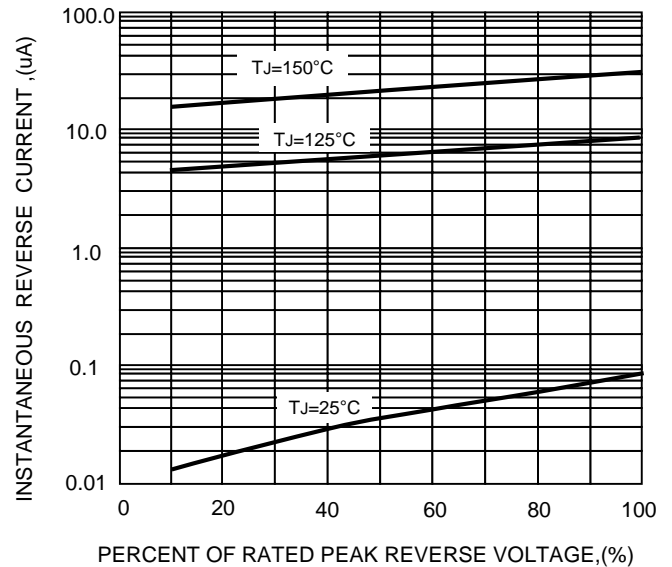


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!