

**SUPER FAST
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **100 to 200** Volts
FORWARD CURRENT - **16** Amperes

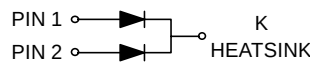
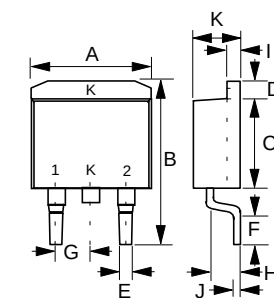
FEATURES

- Glass passivated chip
- Superfast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- High surge capacity
- Plastic package has UL flammability classification 94V-0

MECHANICAL DATA

- Case : D² PAK molded plastic
- Polarity : As marked on the body
- Weight : 0.06 ounces, 1.7 grams

D² PAK



D ² PAK		
DIM.	MIN.	MAX.
A	9.65	10.69
B	14.60	15.88
C	8.25	9.25
D	1.14	1.40
E	0.51	1.14
F	2.29	2.79
G	2.29	2.79
H	2.03	2.92
I	1.14	1.40
J	0.30	0.64
K	4.37	4.83

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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	MURB1610CT	MURB1620CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	V
Maximum RMS Voltage	V _{RMS}	70	140	V
Maximum DC Blocking Voltage	V _{DC}	100	200	V
Maximum Average Forward Rectified Current @T _C =125°C	I _(AV)	16		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	100		A
Maximum forward Voltage at 8.0A DC	V _F	0.975		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =150°C	I _R	5 250		uA
Typical Junction Capacitance per element (Note 1)	C _J	85		pF
Maximum Reverse Recovery Time (Note 2)	T _{RR}	25		ns
Typical Thermal Resistance (Note 3)	R _{θJC}	3.0		°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150		°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Reverse Recovery Test Conditions:I_F=0.5A,I_R=1.0A,recovery to 0.25A.
3.Thermal Resistance Junction to Case.

REV. 2, 01-Dec-2000, KTGB01

FIG.1 - FORWARD CURRENT DERATING CURVE

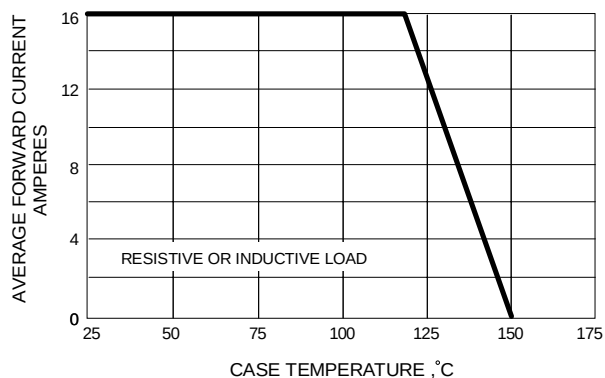


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

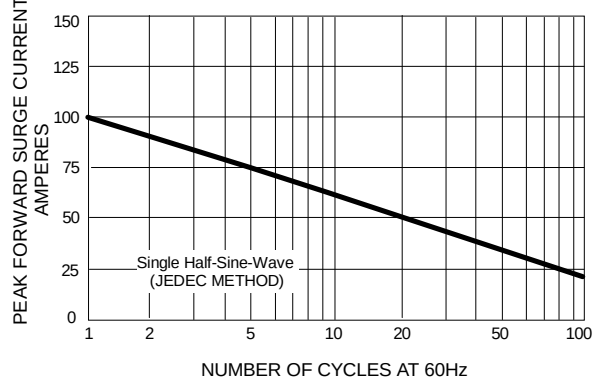


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

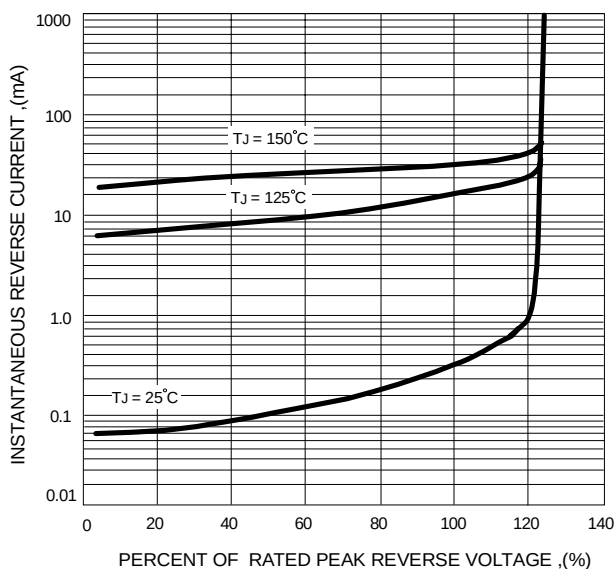


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

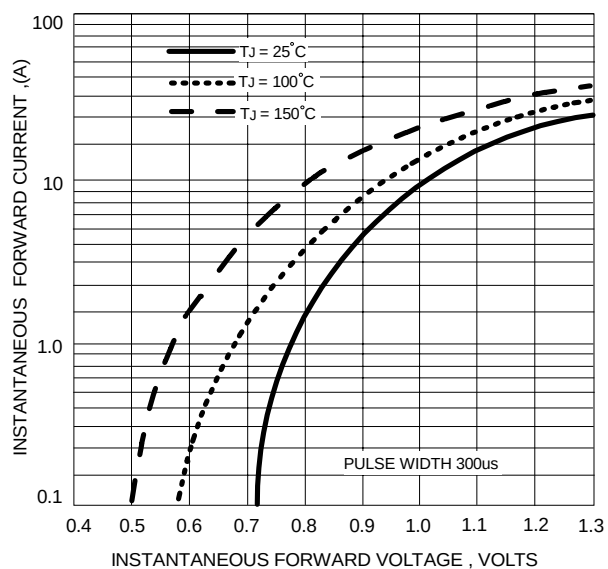


FIG.5 - TYPICAL JUNCTION CAPACITANCE

