

**SUPER FAST  
GLASS PASSIVATED RECTIFIERS**

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

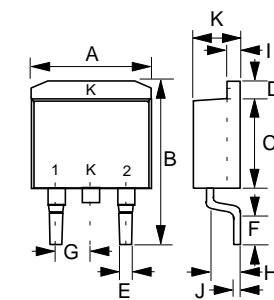
**FEATURES**

- 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**

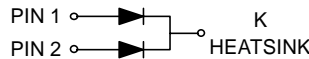
- Case : D PAK molded plastic
- Polarity : As marked on the body
- Weight : 0.06 ounces, 1.7 grams

**D<sup>2</sup> PAK**



D <sup>2</sup> 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



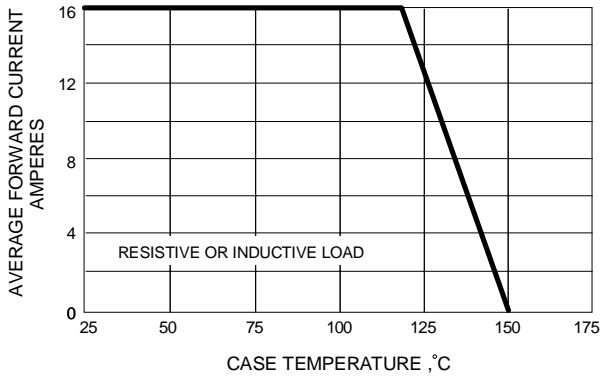
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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%

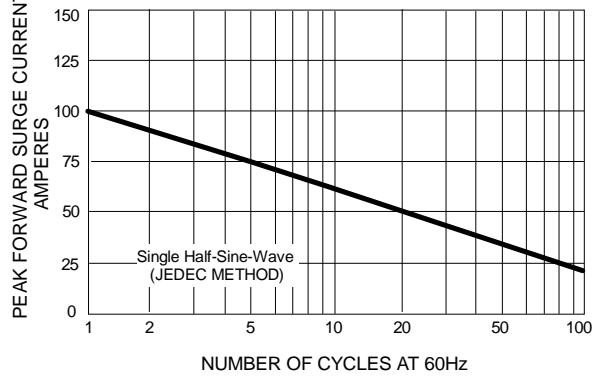
CHARACTERISTICS	SYMBOL	MURB1610CT	MURB1620CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	V
Maximum Average Forward Rectified Current @T <sub>C</sub> =125°C	I <sub>(AV)</sub>	16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

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

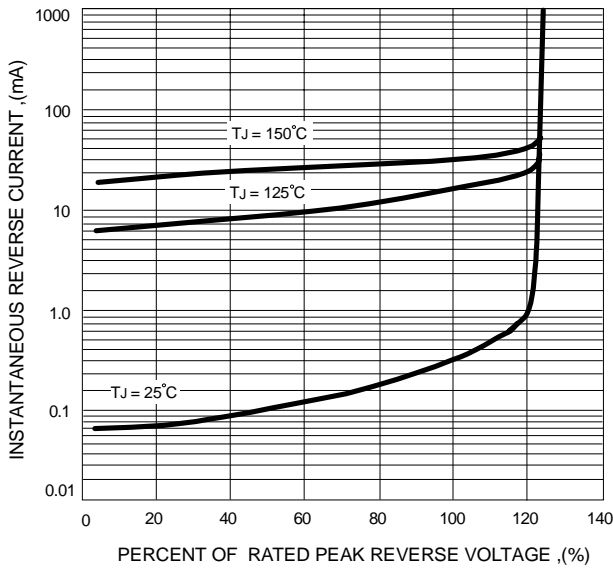
**FIG.1 - FORWARD CURRENT DERATING CURVE**



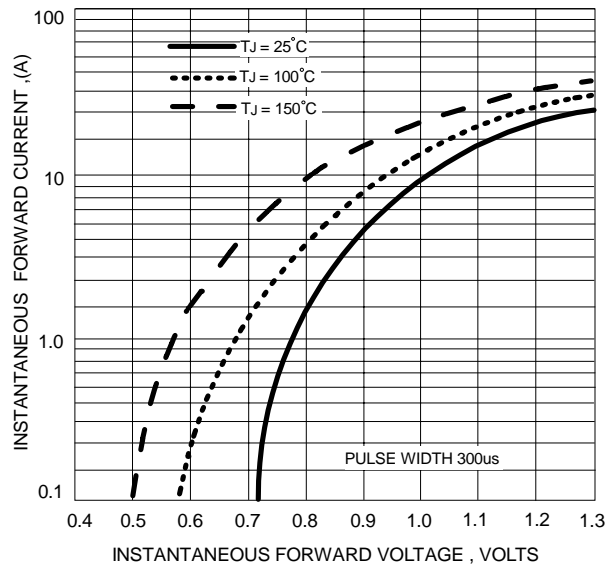
**FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT**



**FIG.3 - TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL JUNCTION CAPACITANCE**

