



**THE DATASHEET OF  
MURB1610CT-T-F**

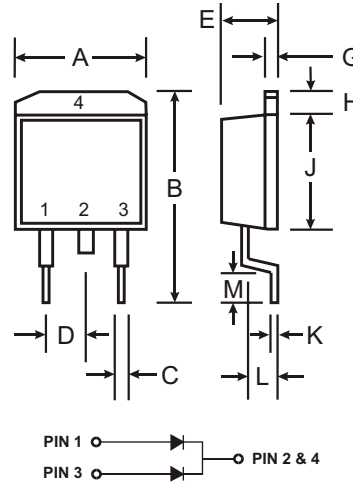


### Features

- Glass Passivated Die Construction
- Diffused Junction
- Super-Fast Recovery Times for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 100A Peak
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.7 grams (approx.)
- Mounting Position: Any



D <sup>2</sup> PAK		
Dim	Min	Max
A	9.65	10.69
B	14.60	15.88
C	0.51	1.14
D	2.29	2.79
E	4.37	4.83
G	1.14	1.40
H	1.14	1.40
J	8.25	9.25
K	0.30	0.64
L	2.03	2.92
M	2.29	2.79

All Dimensions in mm

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	MURB1610CT	MURB1620CT	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>			V
Working Peak Reverse Voltage	V <sub>RWM</sub>	100	200	V
DC Blocking Voltage	V <sub>R</sub>			V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	V
Average Rectified Output Current @ T <sub>C</sub> = 125°C	I <sub>O</sub>	16		A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100		A
Forward Voltage @ I <sub>F</sub> = 8.0A	V <sub>FM</sub>	0.975		V
Peak Reverse Current @ T <sub>A</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>A</sub> = 150°C	I <sub>RM</sub>	5.0	250	μA
Maximum Recovery Time (Note 2)	t <sub>rr</sub>	25		ns
Typical Junction Capacitance (Note 3)	C <sub>j</sub>	85		pF
Typical Thermal Resistance Junction to Case	R <sub>θJC</sub>	1.5		°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150		°C

- Notes:
1. Unit mounted on PC board with 5.0 mm<sup>2</sup> (0.013 mm thick) copper pad as heat sink.
  2. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>rr</sub> = 0.25A.
  3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

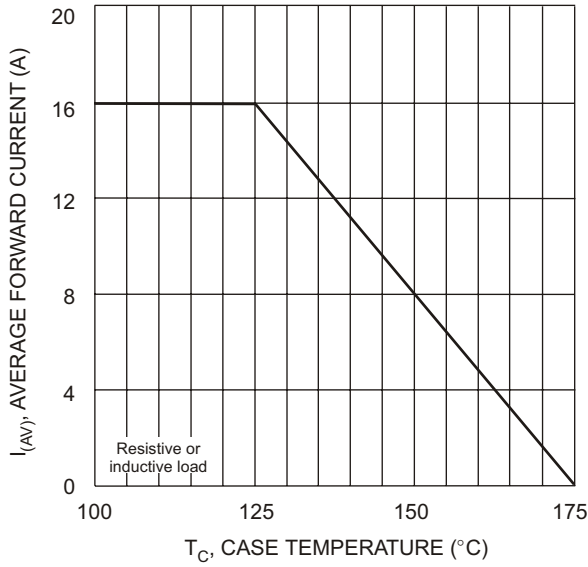


Fig. 1 Forward Current Derating Curve

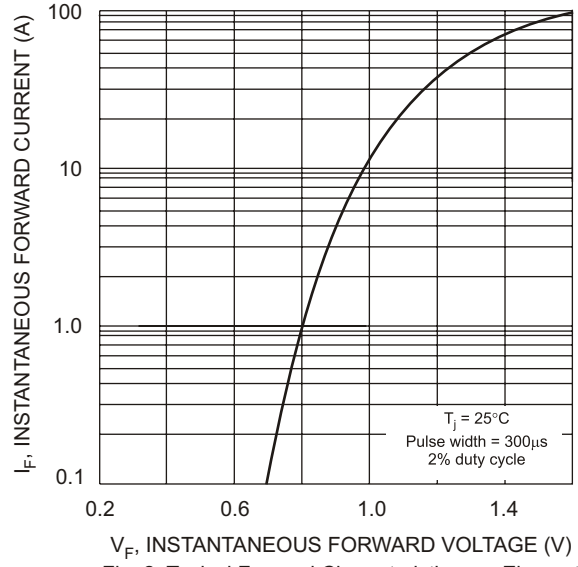


Fig. 2 Typical Forward Characteristics per Element

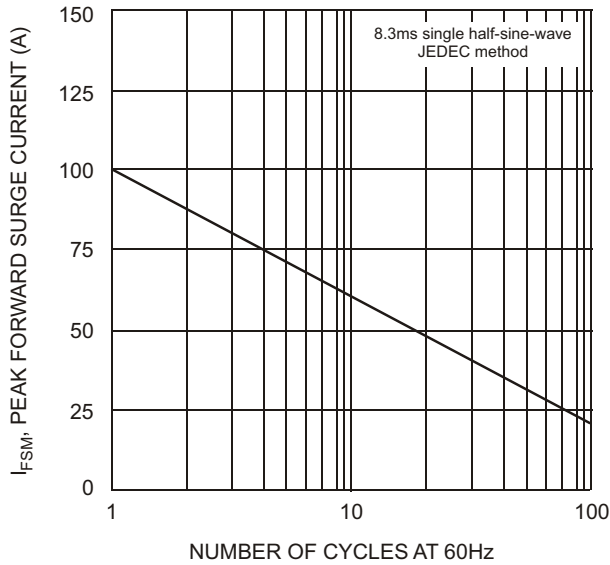


Fig. 3 Max Non-Repetitive Surge Current

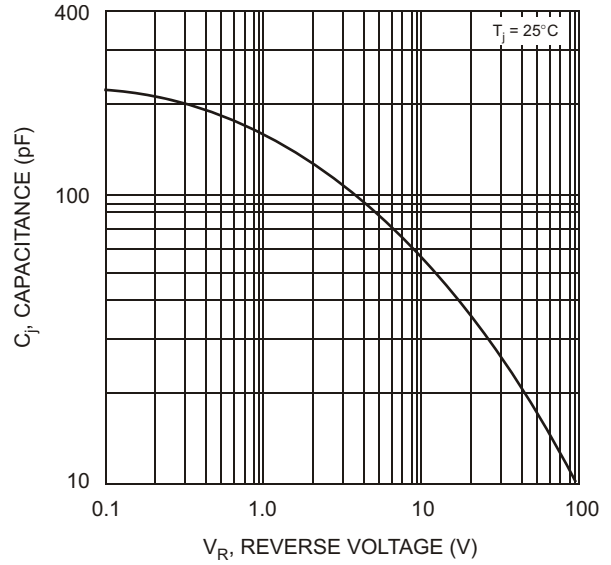


Fig. 4 Typical Junction Capacitance per Element

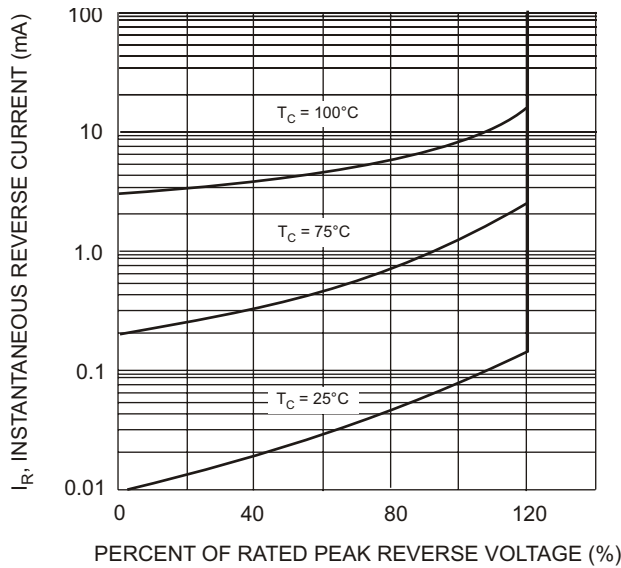


Fig. 5 Typical Reverse Characteristics

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