

MURB1610CT / MURB1620CT

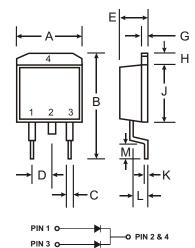
16A SURFACE MOUNT SUPER-FAST RECTIFIER

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
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: D²PAK
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Bright Tin. Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Marking: See Page 3
- Weight: 1.7 grams (approximate)



D ² PAK				
Dim	Min	Max		
Α	9.65	10.69		
В	14.60	15.88		
С	0.51	1.14		
D	2.29	2.79		
Е	4.37	4.83		
G	1.14	1.40		
Н	1.14	1.40		
J	8.25	9.25		
К	0.30	0.64		
L	2.03	2.92		
М	2.29	2.79		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

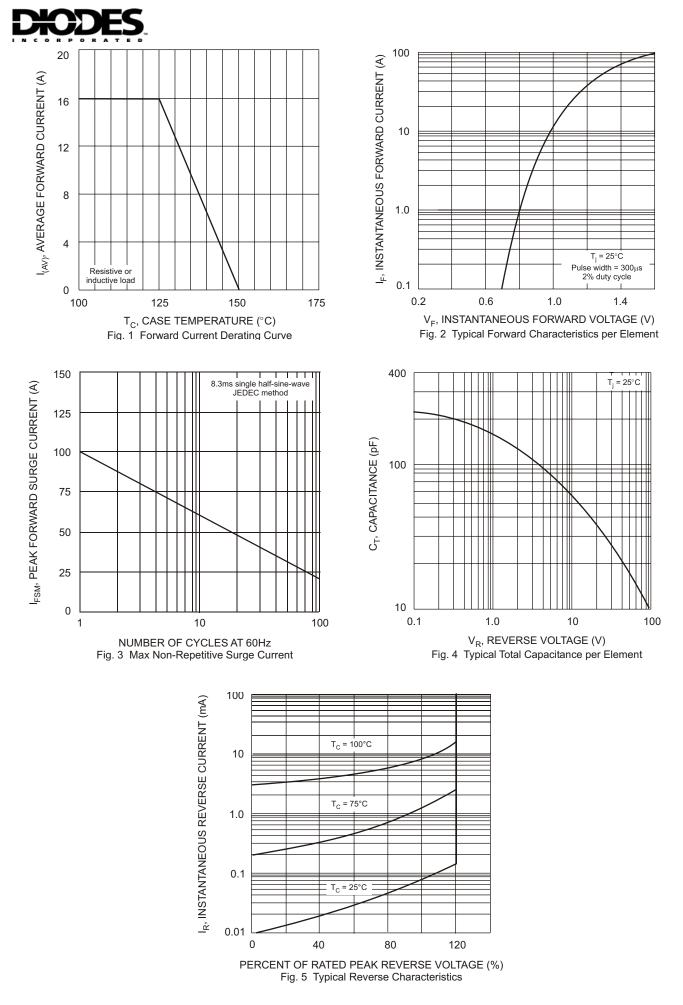
Characteristic	Symbol	MURB1610CT	MURB1620CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	200	V
RMS Reverse Voltage	V _{R(RMS)}	70	140	V
Average Rectified Output Current @ $T_C = 125^{\circ}$	C Io	16		A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		100		А
Forward Voltage @ I _F = 8.0	A V _{FM}	0.975		V
Peak Reverse Current@ $T_A = 25^{\circ}$ at Rated DC Blocking Voltage@ $T_A = 150^{\circ}$	C I _{RM}	5.0 250		μA
Maximum Recovery Time (Note 2)	t _{rr}	3	0	ns
Typical Total Capacitance (Note 3)	CT	8	5	pF
Typical Thermal Resistance Junction to Case	Rejc	1	.5	°C/W
Operating and Storage Temperature Range		-65 to +150		°C

Notes: 1. Unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pad as heat sink.

2. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.

3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



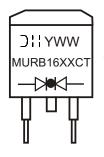


Ordering Information (Note 5)

Device	Packaging	Shipping
MURB1610CT-13	D ² PAK	800/Tape & Reel
MURB1620CT-13	D ² PAK	800/Tape & Reel

Notes: 5. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



MURB16XXCT = Product type marking code)!! = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52