

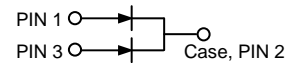
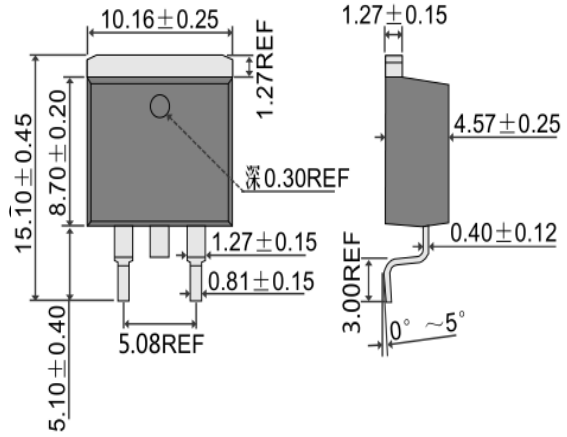
MURHB820CT – MURHB860CT

8.0A SURFACE MOUNT GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

Features

- Fred Chip Planar Construction
- Ideally Suited for Automatic Assembly
- Super-Fast Recovery Time
- High Voltage Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in High Voltage, High Frequency Inverters, Free Wheeling, and Switching Power Supplies

D²PAK/TO-263



Mechanical Data

- Case: D²PAK/TO-263, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Device Code, See Page 3
- **Lead Free: For RoHS / Lead Free Version**

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	MURHB 820CT	MURHB 830CT	MURHB 840CT	MURHB 860CT	Unit
Peak Repetitive Reverse Voltage	V _{RRM}					
Working Peak Reverse Voltage	V _{RWM}	200	300	400	600	V
DC Blocking Voltage	V _R					
RMS Reverse Voltage	V _{R(RMS)}	140	210	280	420	V
Average Rectified Output Current @T _C = 100°C	Total Device I _O Per Diode		8.0			A
			4.0			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}		125			A
Forward Voltage per diode @I _F = 4.0A	V _{FM}	0.95	1.3		1.7	V
Peak Reverse Current At Rated DC Blocking Voltage	I _{RM}		10			μA
			500			
Reverse Recovery Time (Note 1)	t _{rr}	35	50			nS
Typical Junction Capacitance (Note 2)	C _J	85	50			pF
Thermal Resistance Junction to Ambient per diode	R _{JA}	60				°C/W
Thermal Resistance Junction to Case per diode	R _{JC}	3.0				
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150				°C

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



MURHB820CT – MURHB860CT

8.0A SURFACE MOUNT GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

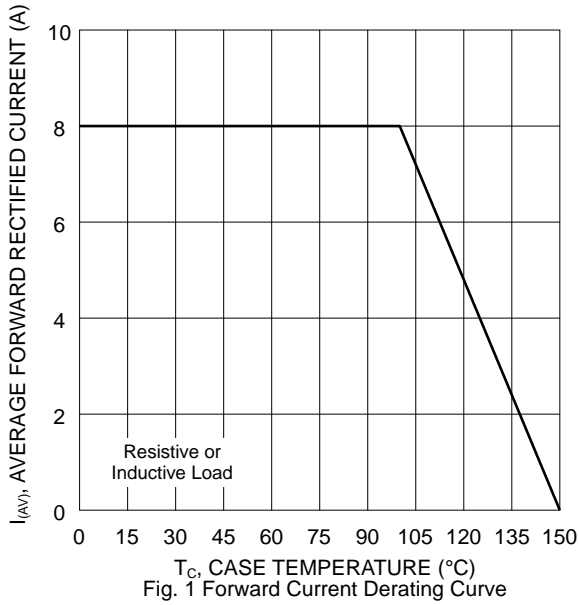


Fig. 1 Forward Current Derating Curve

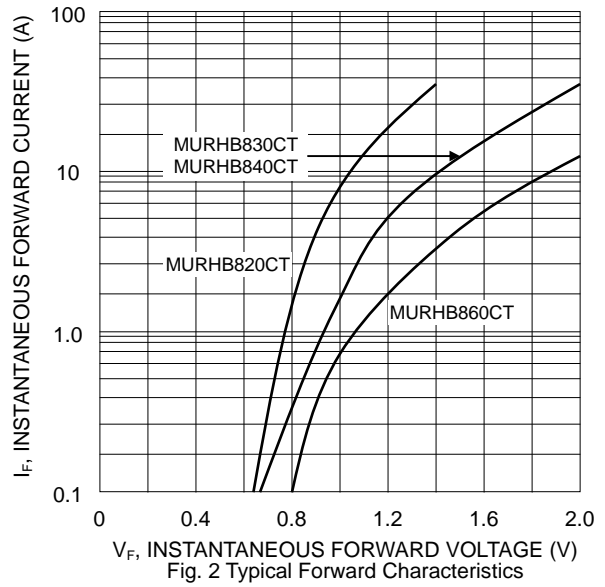


Fig. 2 Typical Forward Characteristics

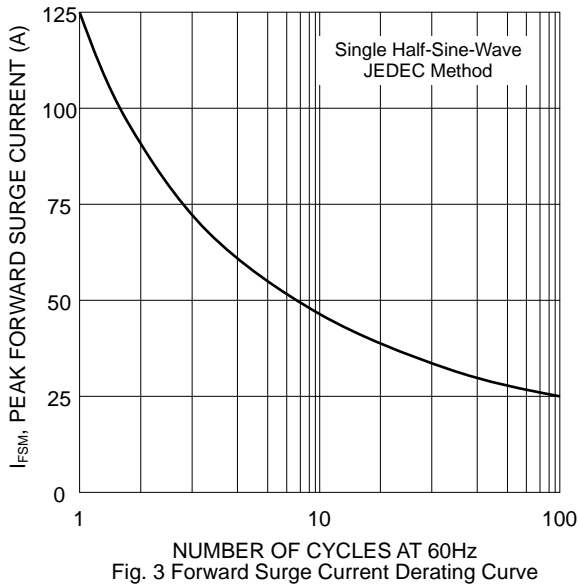


Fig. 3 Forward Surge Current Derating Curve

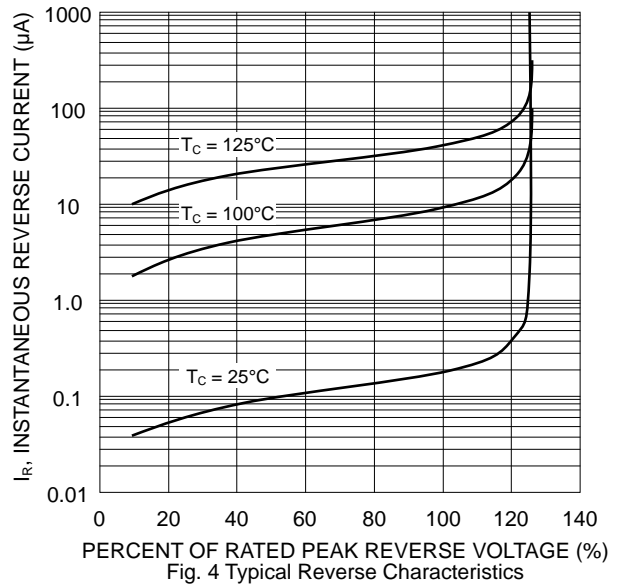


Fig. 4 Typical Reverse Characteristics

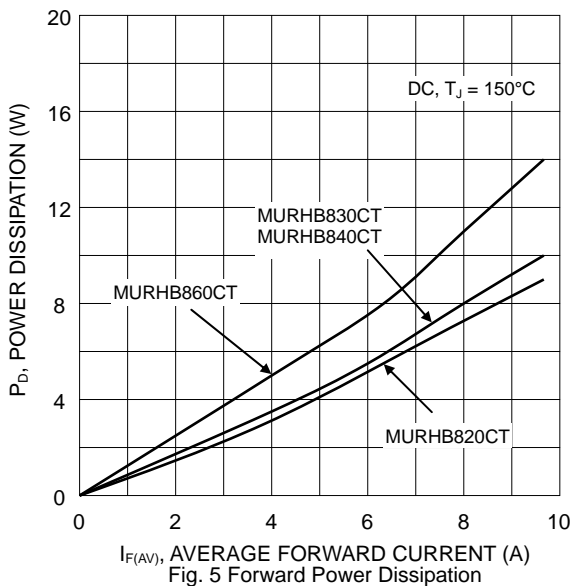


Fig. 5 Forward Power Dissipation

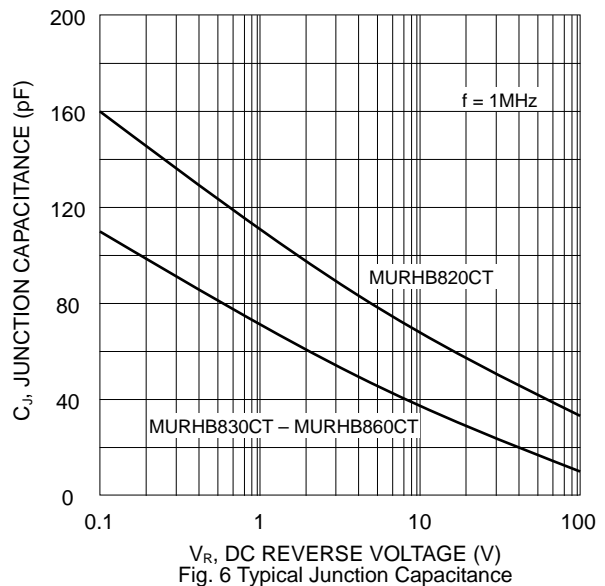


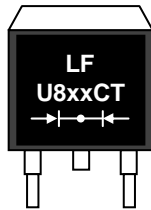
Fig. 6 Typical Junction Capacitance



MURHB820CT – MURHB860CT

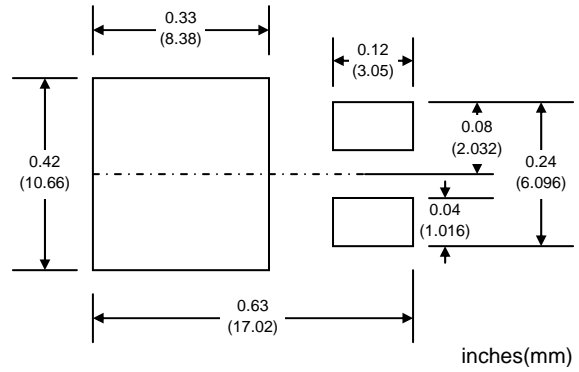
8.0A SURFACE MOUNT GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

MARKING INFORMATION



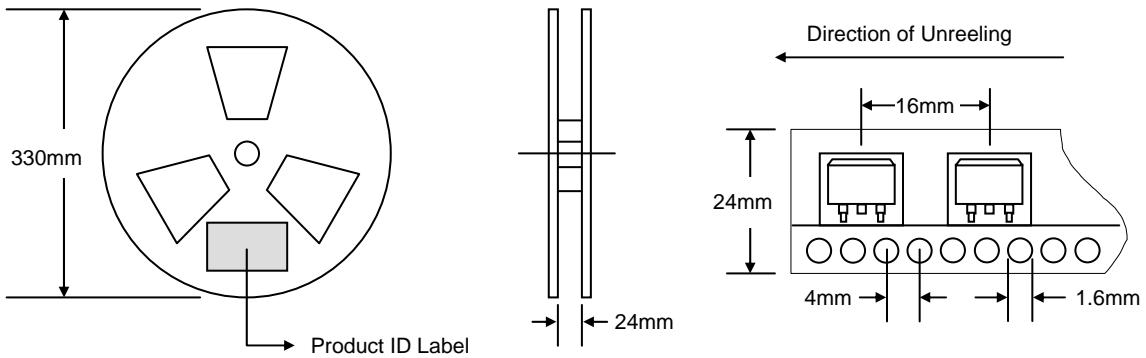
U8xxCT = Device Number
 xx = 20 (MURHB820CT)
 30 (MURHB830CT)
 40 (MURHB840CT)
 60 (MURHB860CT)
 Polarity = As Marked on Body

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	800	340 x 337 x 45	800	370 x 370 x 420	6,400	15.0