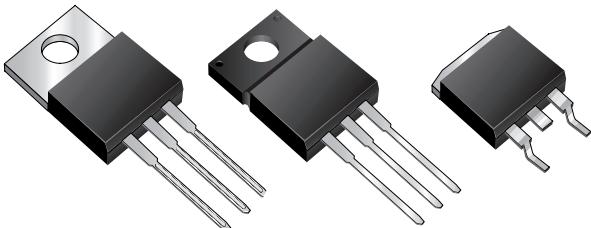
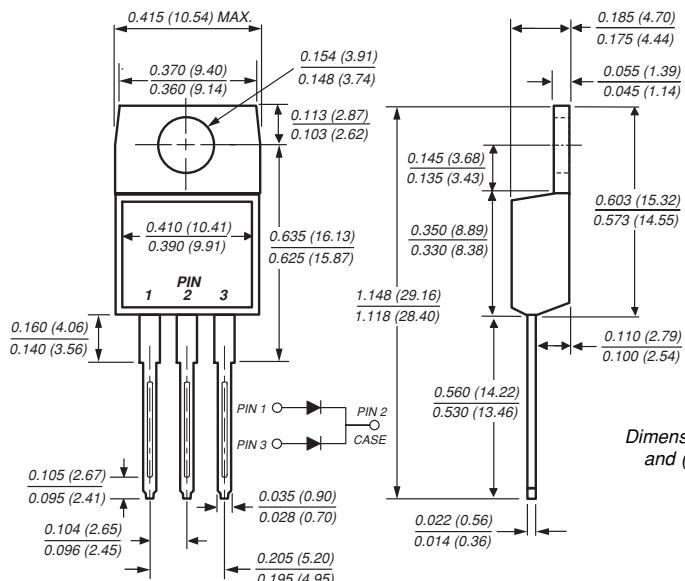


MUR16XXCT Series

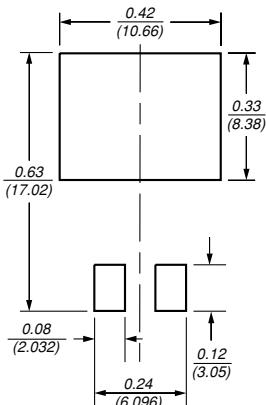
Dual Ultrafast Plastic Rectifier



TO-220AB (FEP16JT Series)



Mounting Pad Layout TO-263AB

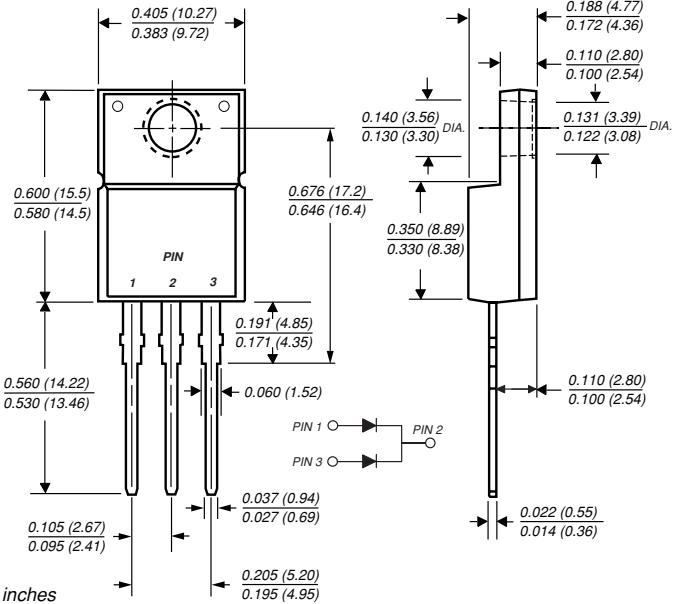


Features

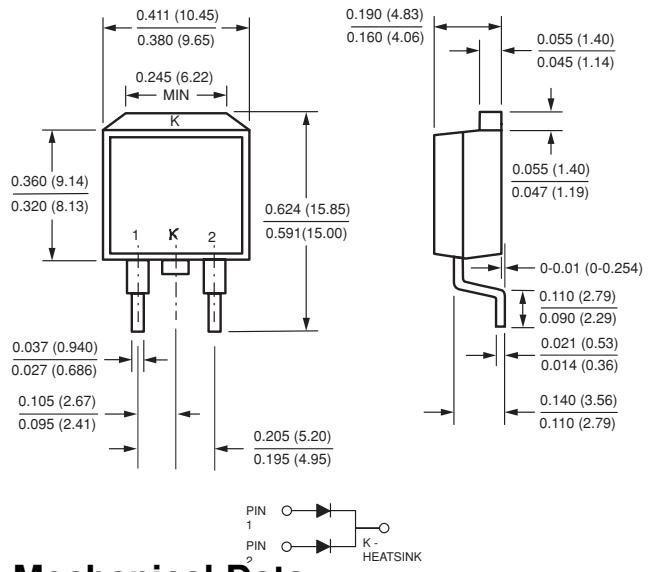
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
 - Dual rectifier construction, positive centertap
 - Glass passivated chip junction
 - Low power loss
 - High surge current capability
 - Low forward voltage, high current capability
 - Superfast recovery times for high efficiency

Reverse Voltage 50 to 600V
Forward Current 16A
Reverse Recovery Time 35 to 50ns

ITO-220AB (FEPF16JT Series)



TO-263AB (FEPB16JT Series)



Mechanical Data

Case: JEDEC TO-220AB, ITO-220AB & TO-263AB
molded plastic body

Terminals: Plated leads, solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed:
250°C/10 seconds at terminals

Polarity: As marked **Mounting Position:** Any

Mounting Torque: 10 in-lbs maximum

Weight: 0.08 oz., 2.24 g

Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	MUR 1605	MUR 1610	MUR 1615	MUR 1620	MUR 1630	MUR 1640	MUR 1645	MUR 1660	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	450	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum average forward rectified current at T _C = 100°C	I _{F(AV)}	16						A		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) at T _C = 100°C per leg	I _{FSM}	200						125		
Operating storage and temperature range	T _J , T _{TSG}	−55 to +150						°C		
RMS Isolation voltage (FEPF) from terminals to heatsink with t = 1.0 second, RH ≤ 30%	V _{ISOL}	4500 ⁽¹⁾ 3500 ⁽²⁾ 1500 ⁽³⁾						V		

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	MUR 1605	MUR 1610	MUR 1615	MUR 1620	MUR 1630	MUR 1640	MUR 1645	MUR 1660	Unit
Maximum instantaneous forward voltage per leg at 8.0A	V _F	0.98				1.30		1.60		V
Maximum DC reverse current per leg T _C = 25°C at rated DC blocking voltage T _C = 100°C	I _R	10 500						μA		
Maximum reverse recovery time per leg at I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A	t _{rr}	35				60				ns
Typical junction capacitance per leg at 4V, 1MHz	C _J	85						50		pF

Ratings and Characteristic Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

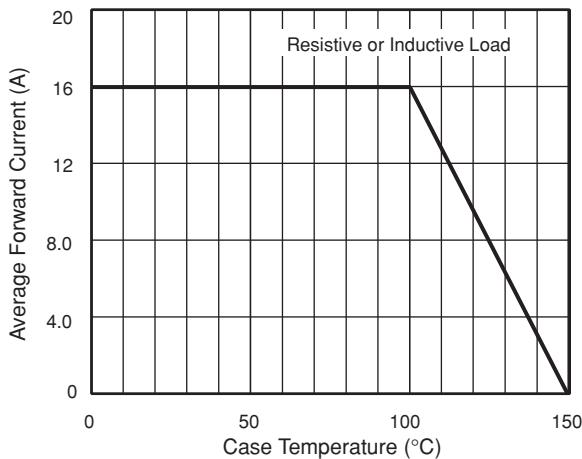


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

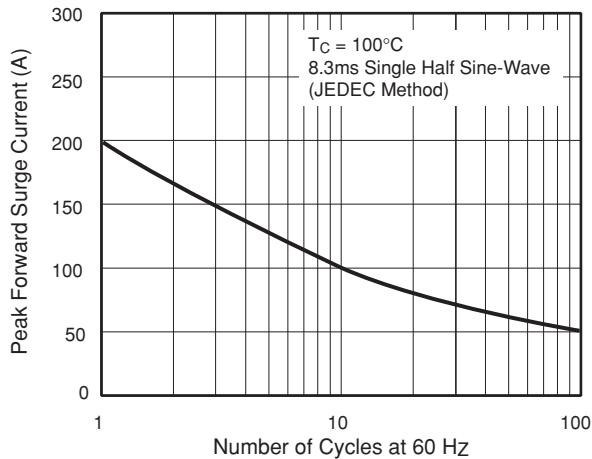


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

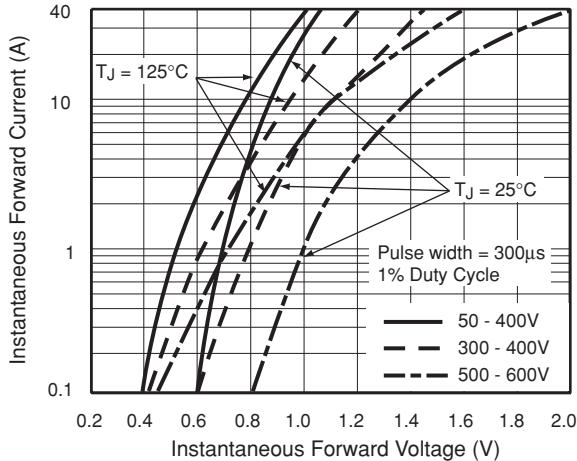


Fig. 4 – Typical Reverse Characteristics Per Leg

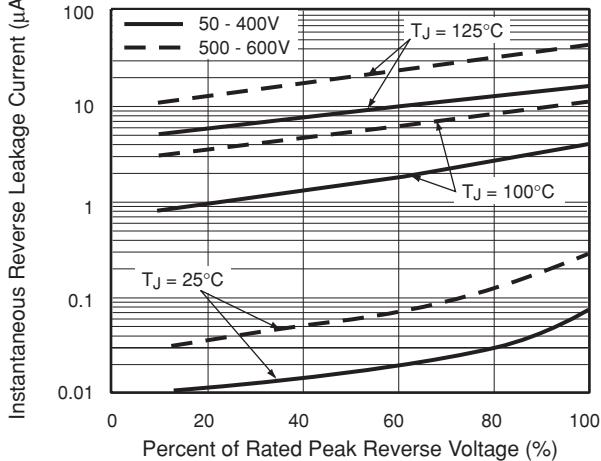


Fig. 5 – Typical Junction Capacitance Per Leg

