



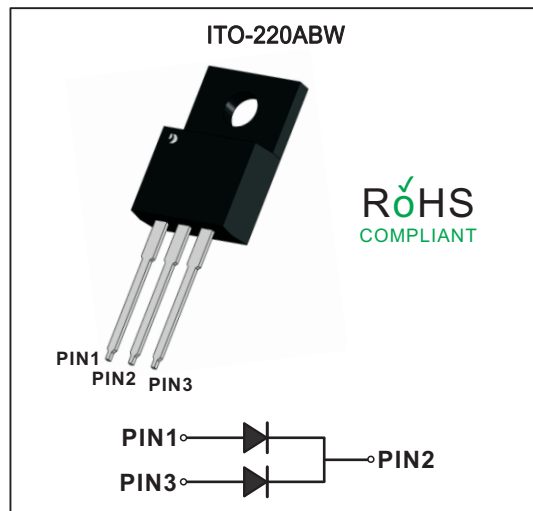
**Fast Recovery Epi Diodes**  
**Reverse Voltage - 200~600 Volts**  
**Forward Current - 16 Amperes**

**Features**

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7s, per JESD 22-B106

**Mechanical data**

- Case: ITO-220ABW
- Approx. Weight: 1.56g ( 0.055oz)
- Lead free finish, RoHS compliant
- Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.



**Maximum Ratings And Electrical Characteristics**

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symble	MUR1620FD	MUR1640FD	MUR1660FD	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	140	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	V
Maximum Average Forward Rectified Current Per leg Per device	$I_{F(AV)}$	8 16			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	$I_{FSM}$	100			A
Max Instantaneous Forward Voltage at 8A (Per leg)	$V_F$	1.0	1.25	1.6	V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 125^\circ\text{C}$	$I_R$	10 500			uA
Maximum Reverse Recovery Time <sup>(1)</sup>	$t_{rr}$	35			ns
Typical Thermal Resistance	$R_{\theta JC}$	4			°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150			°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150			°C

NOTE 1: Reverse recovery test conditions  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$



Fig.1 Typical Forward Current Derating Curve

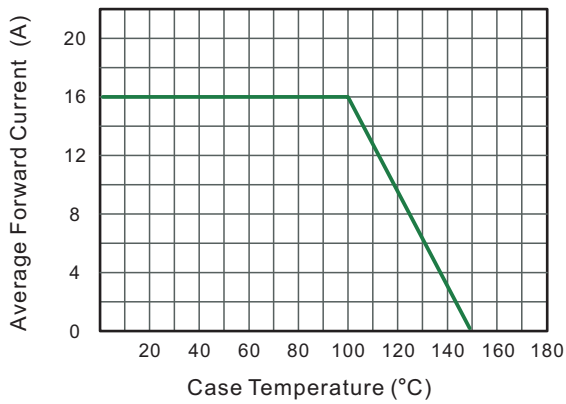


Fig.2 Typical Reverse Characteristics

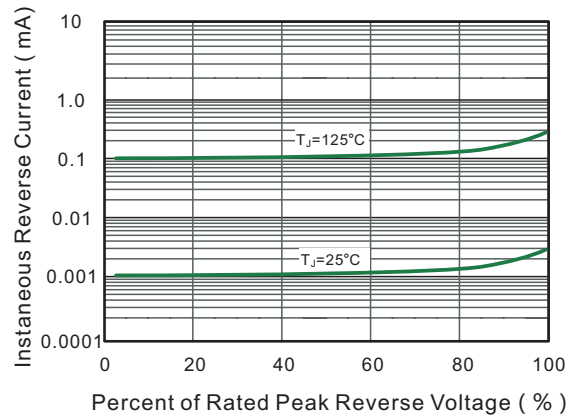


Fig.3 Typical Forward Characteristic

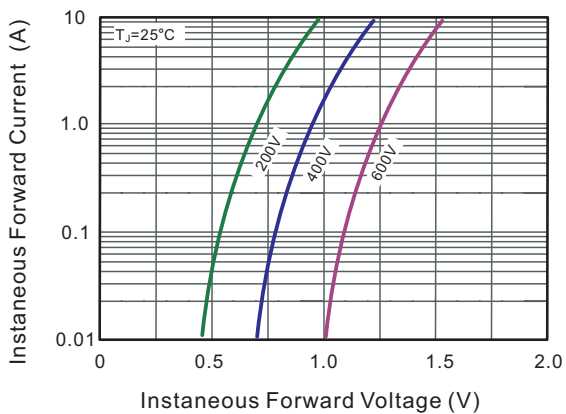
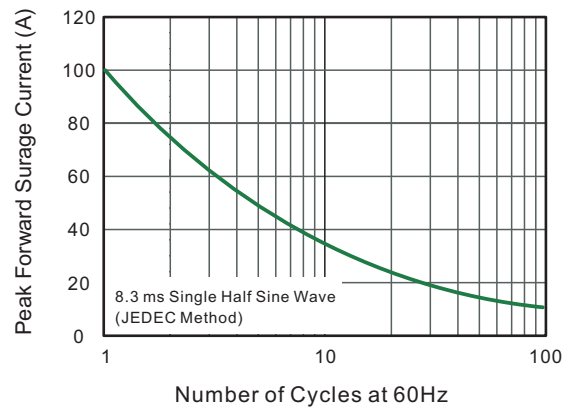


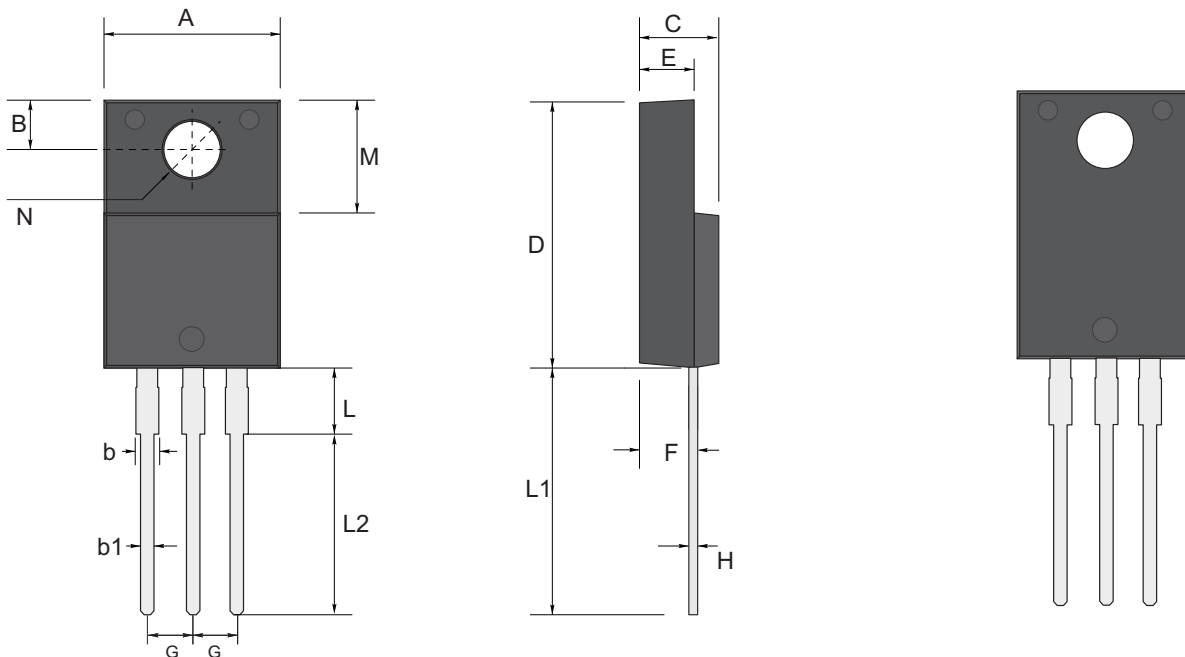
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





Package Outline  
Through Hole Package ; 3 leads

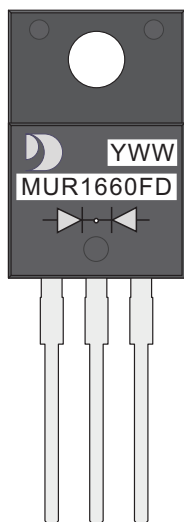
ITO-220ABW



ITO-220ABW Mechanical data

UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	L2	M	N
mm	max	10.5	2.85	1.4	0.8	4.7	16.0	2.9	3.55	2.54 typ.	0.70	2.9	14.3	11.8	7.0	3.4 typ.
	typ	10.0	2.70	1.2	0.6	4.5	15.0	2.7	3.25		0.55	2.5	13.5	11.0	6.8	
	min	9.85	2.54	1.1	0.5	4.4	14.7	2.5	2.95		0.41	2.3	13.0	10.5	6.3	
mil	max	413	112	55	31	185	630	114	140	100 typ.	28	114	563	465	276	134 typ.
	typ	394	106	47	24	177	591	106	128		22	98	531	433	268	
	min	388	100	43	20	173	579	98	116		16	91	512	413	248	

### Marking Diagram



YWW: Date Code  
Y: Years(0~9)  
WW: Week  
MUR1660FD: Product name  
(NOTE: The weekly code is based on the actual number of weeks in the calendar year.)



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