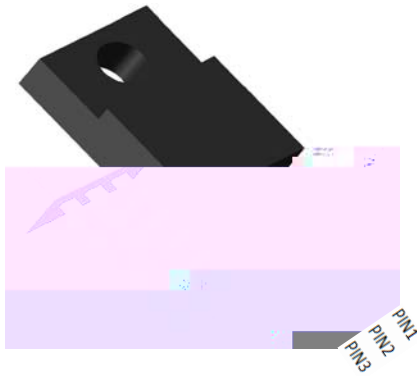


- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

- : ITO-220AB
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- : As marked

($T_a=25$ Unless otherwise specified)

Device marking code			
Repetitive Peak Reverse Voltage	VRRM	V	300
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25$	IO	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$	IFSM	A	200
Current Squared Time @1ms≤t<8.3ms $T_j=25$	I ² t	A ² s	167
Storage Temperature	Tstg		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

$T_a=25$ Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=10.0A	0.975
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	VRM=VRRM $T_a=25$	0.05
	I _{RRM2}		VRM=VRRM $T_a=100$	10

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



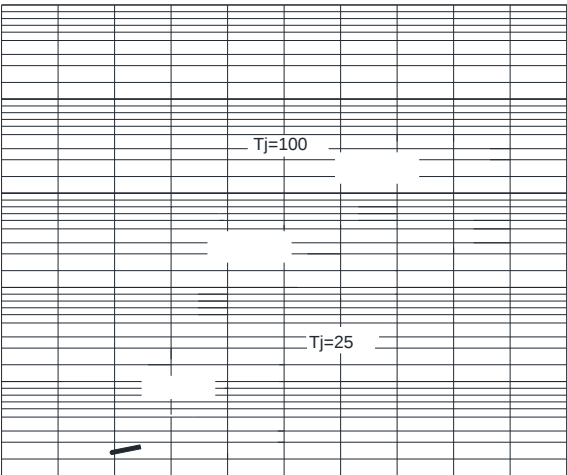
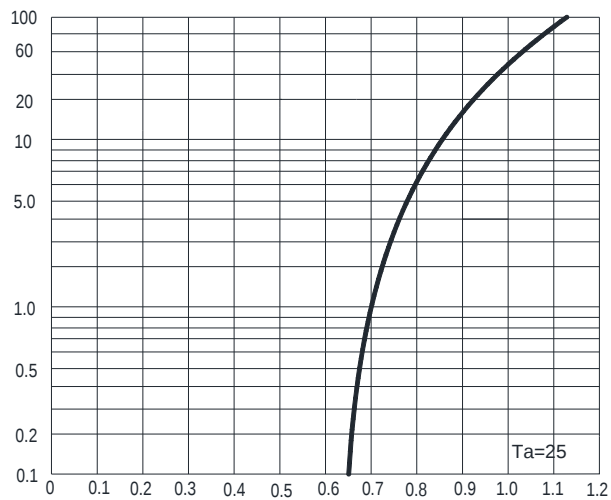
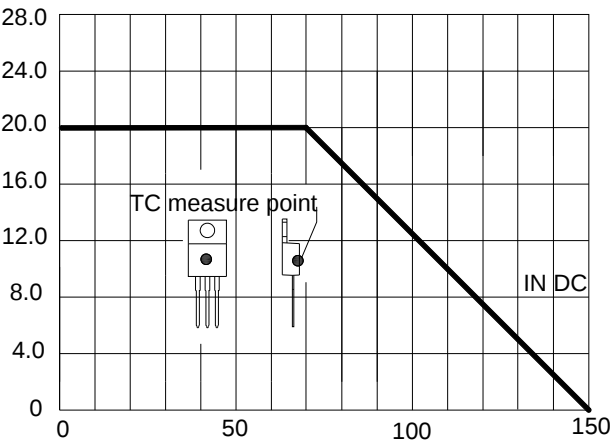
■ $T_a=25$ Unless otherwise specified

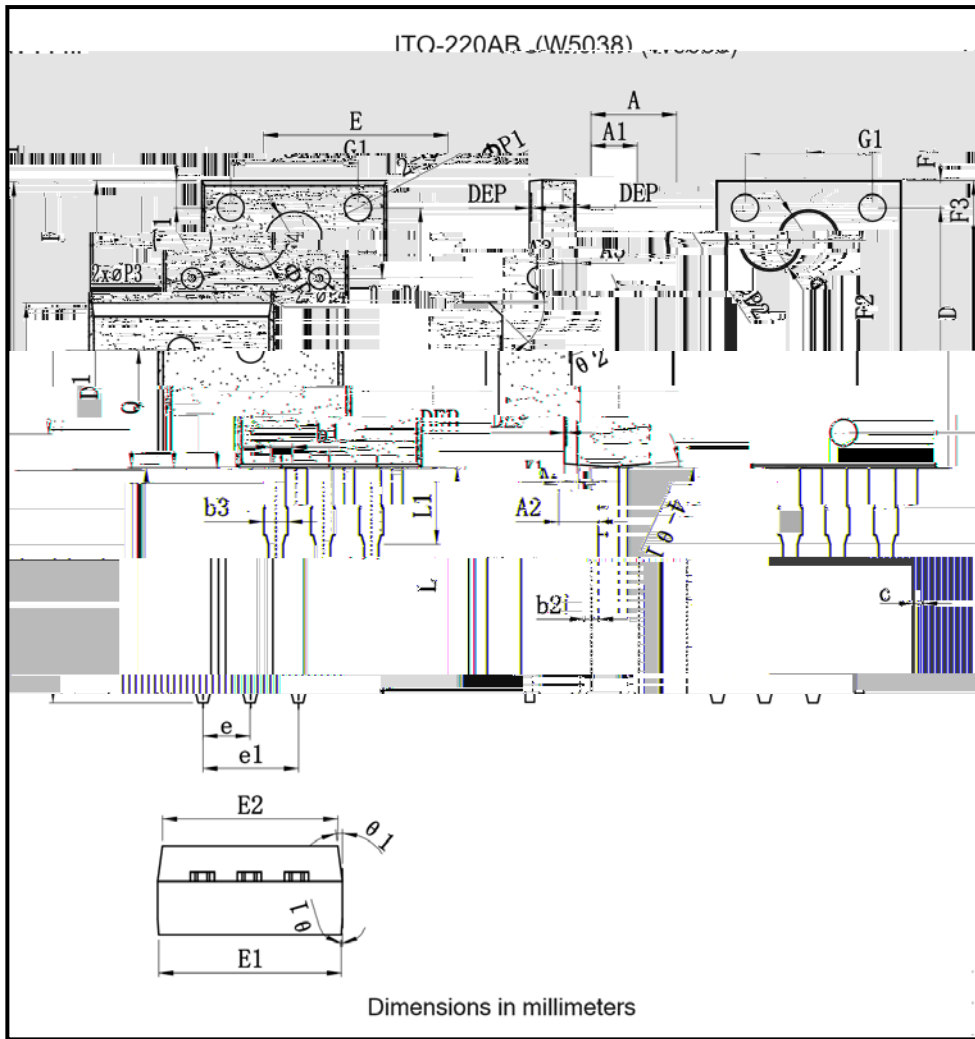
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	W	4.0

■ (Example)

MBR20300FCT-B1-W5038HF	Approximate 1.6	50	1000	5000	Tube

■ (Typical)





Dim	Min	Max
A	4.50	4.90
A1	2.34	2.74
A2	2.66	2.86
A3	1.0 REF	
b1	1.18	1.24
b2	0.75	0.85
b3	1.22	1.38
C	0.45	0.55
D	15.67	16.07
D1	9.04	9.20
e	2.50	2.58
e1	5.08 REF	
E	10.00	10.30
E1	9.94	10.20
E2	9.40	9.60
F1	1.40	1.60
F2	13.80	14.00
F3	3.20	3.40
F4	3.70	4.10
G1	6.90	7.10
K1	0.65	0.75
L	12.78	13.18
L1	3.40	3.60
Q	6.50 REF	
ΦP	3.08	3.28
ΦP1	1.45	1.65
ΦP2	3.30	3.50
ΦP3	0.95	1.35
ΦP4	0.25	0.35
θ1	3°	7°
θ2	42°	48°
DEP	0.05	0.15



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