



ELECTRICAL CHARACTERISTICS (T _C = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	TEST CONDITIONS		MBR20H60CT		UNIT
				TYP.	MAX.	
Maximum instantaneous forward voltage per diode	V _F ⁽¹⁾	I _F = 10 A	T _C = 25 °C	-	0.71	V
		I _F = 10 A	T _C = 125 °C	0.57	0.61	
		I _F = 20 A	T _C = 25 °C	-	0.85	
		I _F = 20 A	T _C = 125 °C	0.68	0.71	
Maximum reverse current per diode	I _R ⁽²⁾	Rated V _R	T _J = 25 °C	-	100	μA
			T _J = 125 °C	2.0	12	mA

Notes(1) Pulse test: 300 μs pulse width, 1 % duty cycle(2) Pulse test: pulse width $\leq 40\text{ ms}$

THERMAL CHARACTERISTICS ($T_C = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)					
PARAMETER	SYMBOL	MBR	MBRF	MBRB	UNIT
Typical resistance, junction to case per diode	$R_{\theta JC}$	2.0	4.0	2.0	$^{\circ}\text{C/W}$

ORDERING INFORMATION (Example)					
PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
TO-220AB	MBR20H60CT-E3/45	1.85	45	50/tube	Tube
ITO-220AB	MBRF20H60CT-E3/45	1.99	45	50/tube	Tube
TO-263AB	MBRB20H60CT-E3/45	1.35	45	50/tube	Tube
TO-263AB	MBRB20H60CT-E3/81	1.35	81	800/reel	Tape and reel
TO-220AB	MBR20H60CTHE3/45 ⁽¹⁾	1.85	45	50/tube	Tube
ITO-220AB	MBRF20H60CTHE3/45 ⁽¹⁾	1.99	45	50/tube	Tube
TO-263AB	MBRB20H60CTHE3/45 ⁽¹⁾	1.35	45	50/tube	Tube
TO-263AB	MBRB20H60CTHE3/81 ⁽¹⁾	1.35	81	800/reel	Tape and reel
TO-263AB	MBRB20H60CTHE3_A/P ⁽¹⁾	1.35	P	50/tube	Tube
TO-263AB	MBRB20H60CTHE3_A/I ⁽¹⁾	1.35	I	800/reel	Tape and reel

Note

(1) AEC-Q101 qualified



RATINGS AND CHARACTERISTICS CURVES ($T_C = 25^\circ\text{C}$ unless otherwise noted)

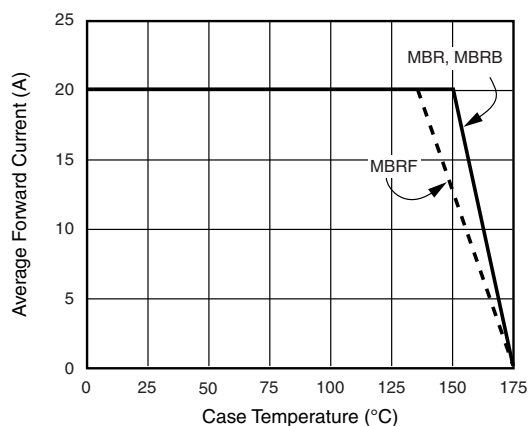


Fig. 1 - Forward Current Derating Curve (Total)

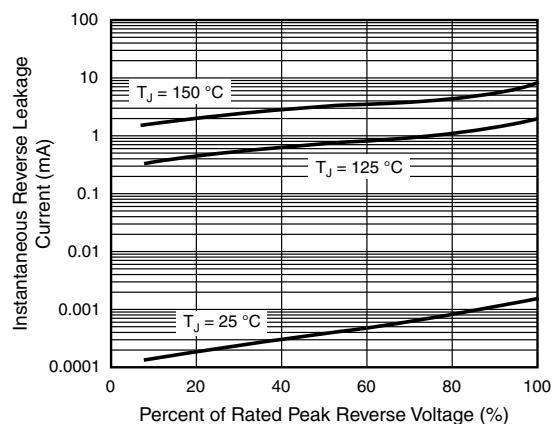


Fig. 4 - Typical Reverse Characteristics Per Diode

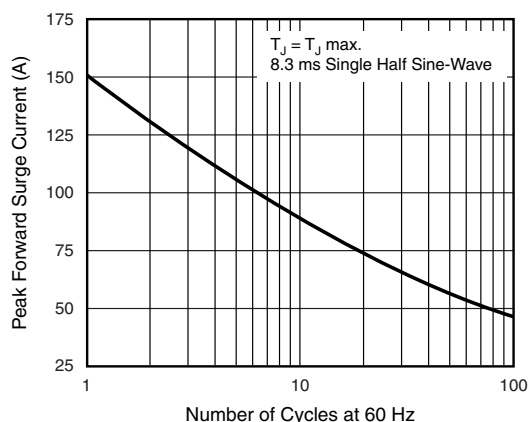


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

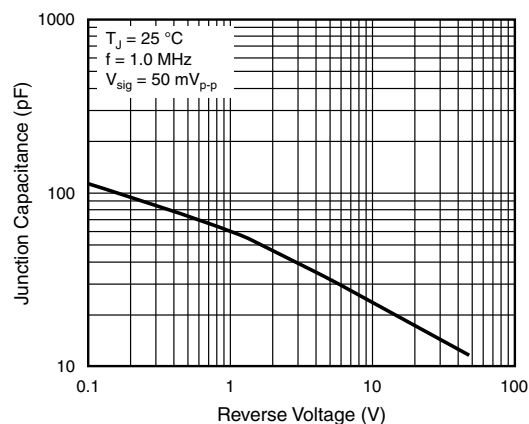


Fig. 5 - Typical Junction Capacitance Per Diode

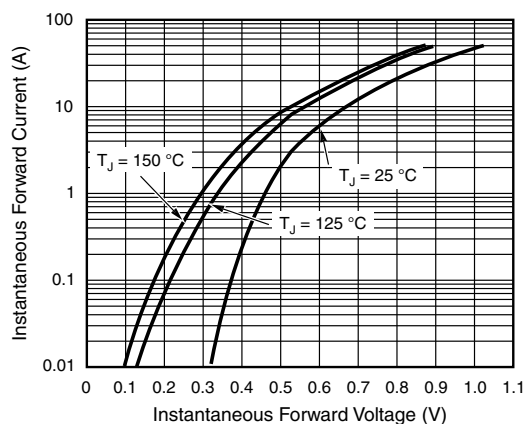


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

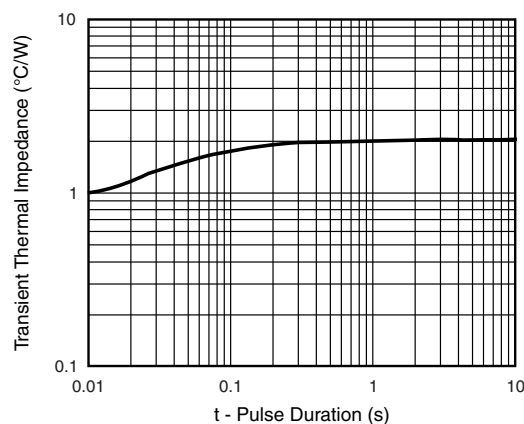
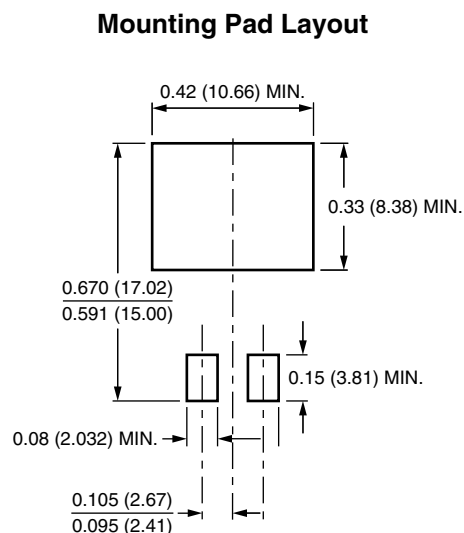
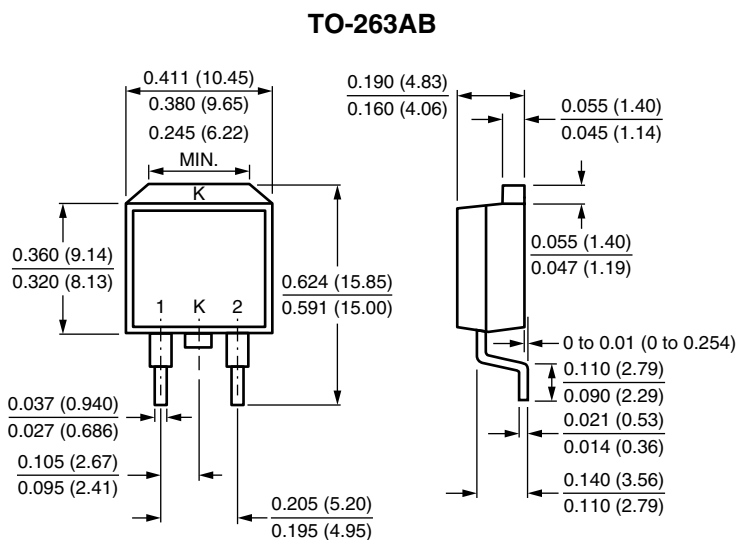
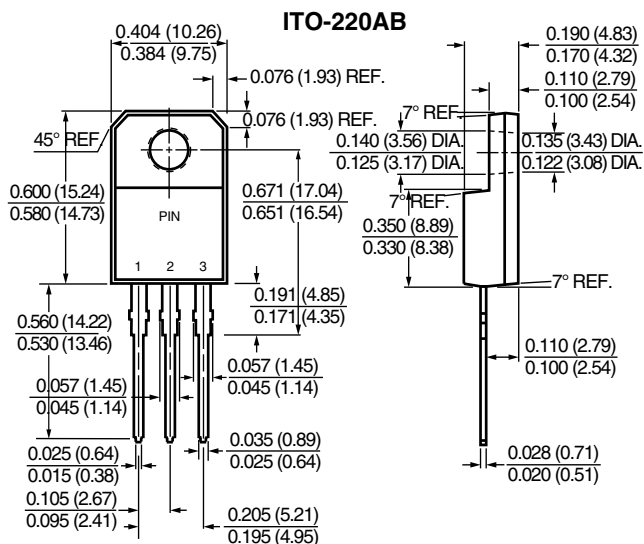
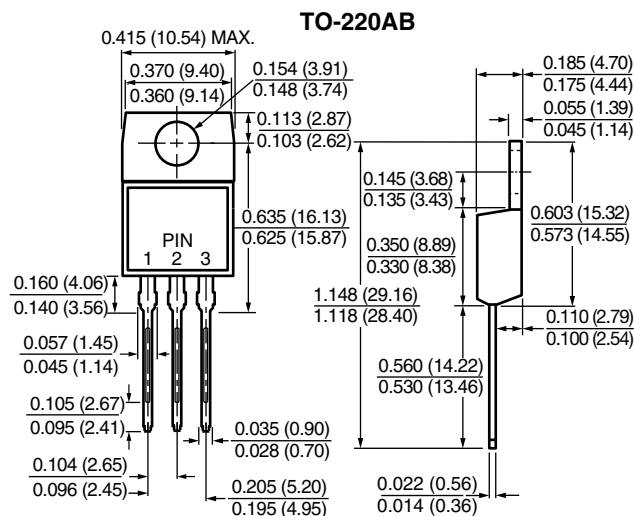


Fig. 6 - Typical Transient Thermal Impedance Per Diode



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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