



ELECTRICAL CHARACTERISTICS ($T_C = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)					
PARAMETER	SYMBOL	TEST CONDITIONS		VALUE	UNIT
Maximum instantaneous forward voltage	$V_F^{(1)}$	$I_F = 10\text{ A}$	$T_C = 25\text{ }^{\circ}\text{C}$	0.52	V
			$T_C = 125\text{ }^{\circ}\text{C}$	0.43	
Maximum instantaneous reverse current at DC blocking voltage	$I_R^{(2)}$	Rated V_R	$T_C = 25\text{ }^{\circ}\text{C}$	1.0	mA
			$T_C = 125\text{ }^{\circ}\text{C}$	100	

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	SBL	SBLF	SBLB	UNIT
Typical thermal resistance from junction to case per leg	$R_{\theta JC}$	4.3	4.8	4.3	$^{\circ}\text{C/W}$

ORDERING INFORMATION (Example)					
PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
TO-220AC	SBL10L30-E3/45	1.80	45	50/tube	Tube
ITO-220AC	SBLF10L30-E3/45	1.94	45	50/tube	Tube
TO-263AB	SBLB10L30-E3/45	1.33	45	50/tube	Tube
TO-263AB	SBLB10L30-E3/81	1.33	81	800/reel	Tape and reel
TO-220AC	SBL10L30HE3/45 ⁽¹⁾	1.80	45	50/tube	Tube
ITO-220AC	SBLF10L30HE3/45 ⁽¹⁾	1.94	45	50/tube	Tube
TO-263AB	SBLB10L30HE3/45 ⁽¹⁾	1.33	45	50/tube	Tube
TO-263AB	SBLB10L30HE3/81 ⁽¹⁾	1.33	81	800/reel	Tape and reel

Note

(1) AEC-Q101 qualified



RATINGS AND CHARACTERISTICS CURVES

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

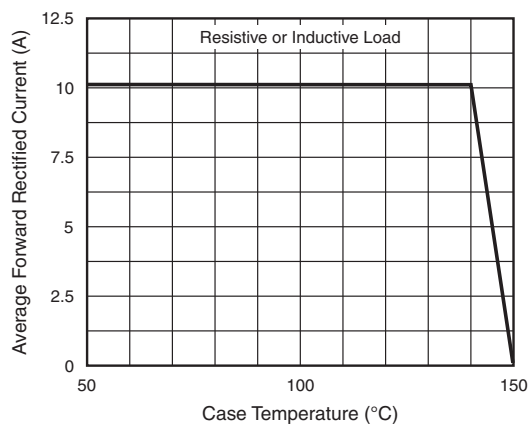


Fig. 1 - Forward Current Derating Curve

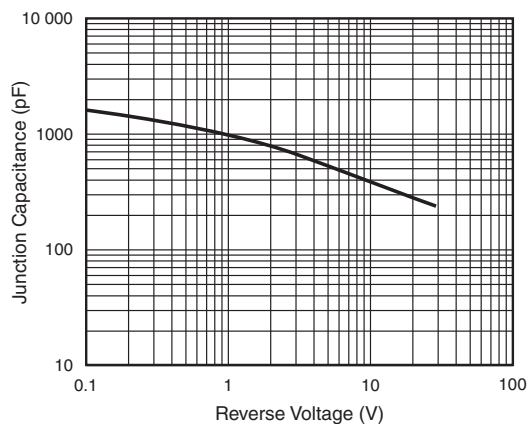


Fig. 4 - Typical Junction Capacitance

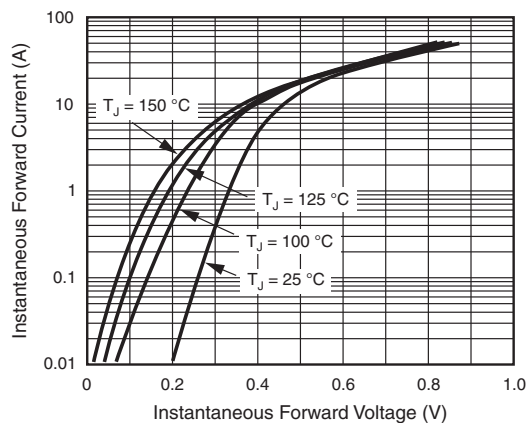


Fig. 2 - Typical Instantaneous Forward Characteristics

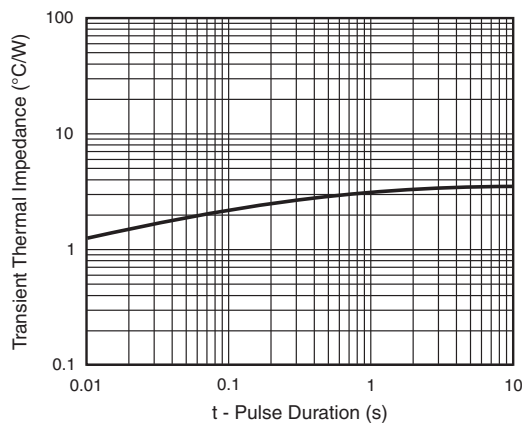


Fig. 5 - Typical Transient Thermal Impedance

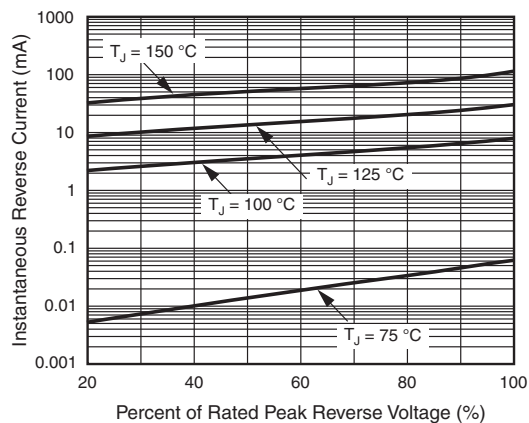
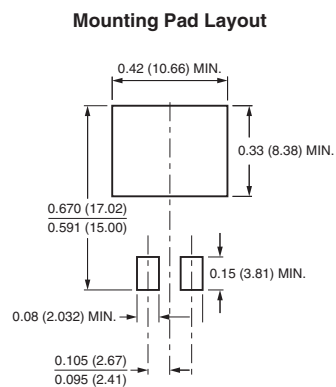
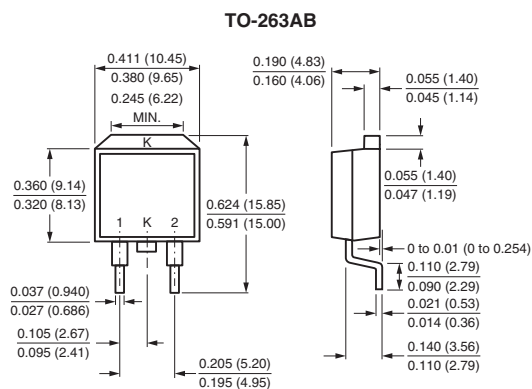
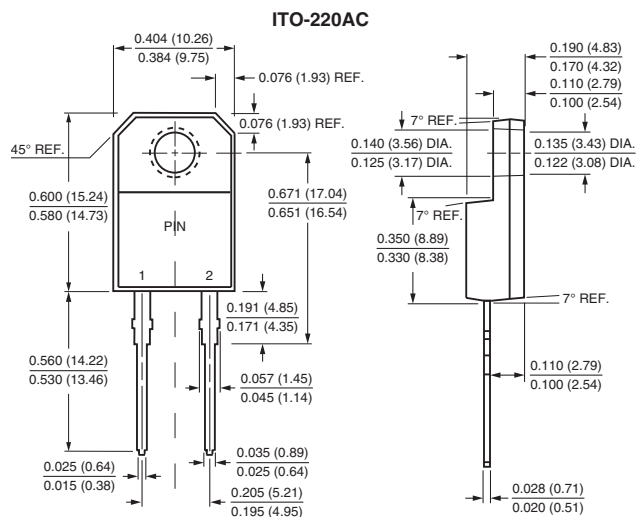
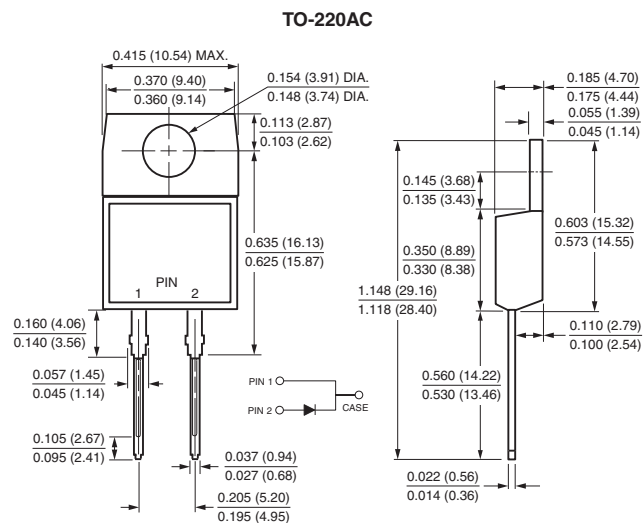


Fig. 3 - Typical Reverse Characteristics

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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