



ELECTRICAL CHARACTERISTICS ($T_C = 25\text{ }^\circ\text{C}$ unless otherwise noted)								
PARAMETER	TEST CONDITIONS		SYMBOL	BYV32-50	BYV32-100	BYV32-150	BYV32-200	UNIT
Maximum instantaneous forward voltage per diode	$I_F = 20\text{ A}$	$T_J = 25\text{ }^\circ\text{C}$	$V_F^{(1)}$	1.15				V
	$I_F = 5.0\text{ A}$	$T_J = 100\text{ }^\circ\text{C}$		0.85				
Maximum DC reverse current per diode at rated DC blocking voltage			I_R	10				μA
				600				
Maximum reverse recovery time per diode	$I_F = 1\text{ A}$, $V_R = 30\text{ V}$ $di/dt = 100\text{ A}/\mu\text{s}$, $I_{rr} = 10\% I_{RM}$		t_{rr}	25				ns
Typical junction capacitance per diode	4.0 V, 1 MHz		C_J	45				pF

Note(1) Pulse test: 300 μs pulse width, 1 % duty cycle

THERMAL CHARACTERISTICS ($T_C = 25\text{ }^\circ\text{C}$ unless otherwise noted)					
PARAMETER	SYMBOL	BYV	BYVF	BYVB	UNIT
Typical thermal resistance from junction to case per diode	$R_{\theta JC}$	1.6	5.0	1.6	$^\circ\text{C}/\text{W}$

ORDERING INFORMATION (Example)					
PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
TO-220AB	BYV32-200-E3/45	1.85	45	50/tube	Tube
ITO-220AB	BYVF32-200-E3/45	1.97	45	50/tube	Tube
TO-263AB	BYVB32-200-E3/45	1.35	45	50/tube	Tube
TO-263AB	BYVB32-200-E3/81	1.35	81	800/reel	Tape and reel
ITO-220AB	BYVF32-200HE3/45 ⁽¹⁾	1.97	45	50/tube	Tube
TO-263AB	BYVB32-200HE3/45 ⁽¹⁾	1.35	45	50/tube	Tube
TO-263AB	BYVB32-200HE3/81 ⁽¹⁾	1.35	81	800/reel	Tape and reel

Note

(1) AEC-Q101 qualified, available in ITO-220AB and TO-263AB package



RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

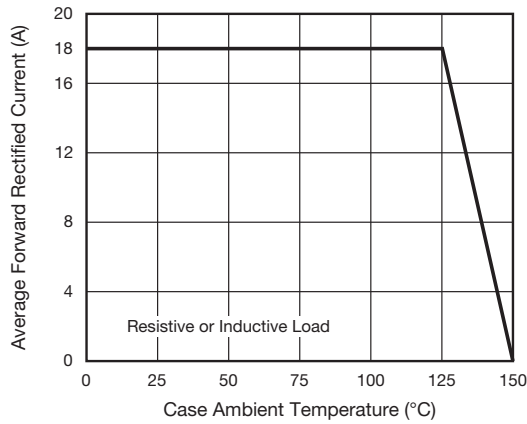


Fig. 1 - Forward Current Derating Curve

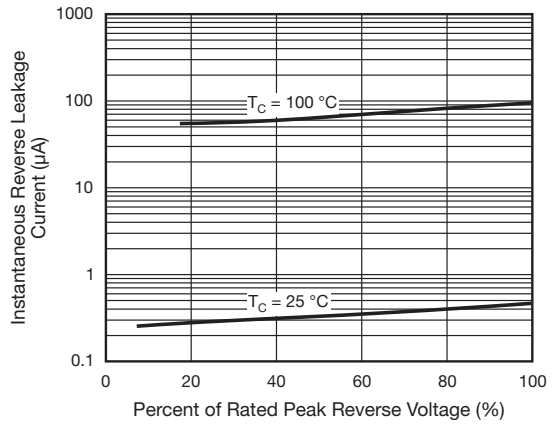


Fig. 4 - Typical Reverse Leakage Characteristics Per Diode

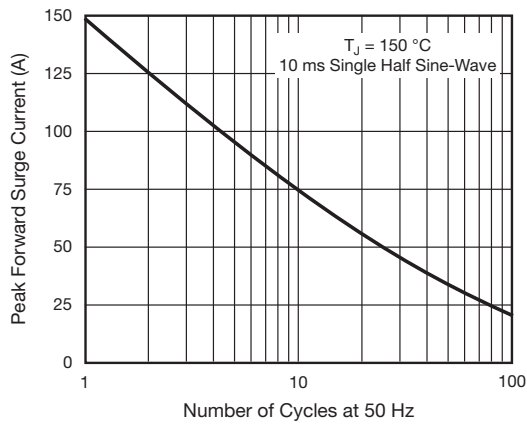


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

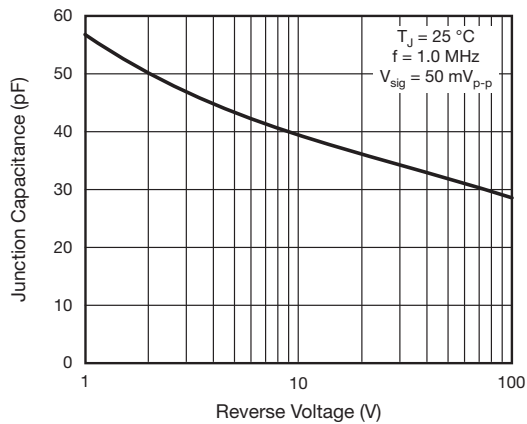


Fig. 5 - Typical Junction Capacitance Per Diode

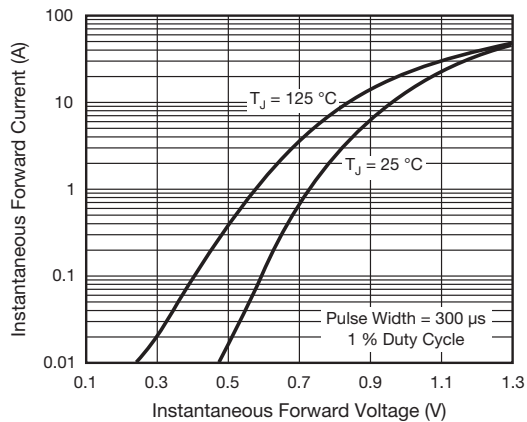
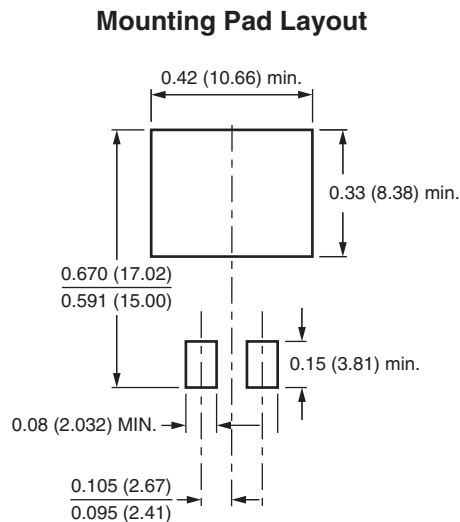
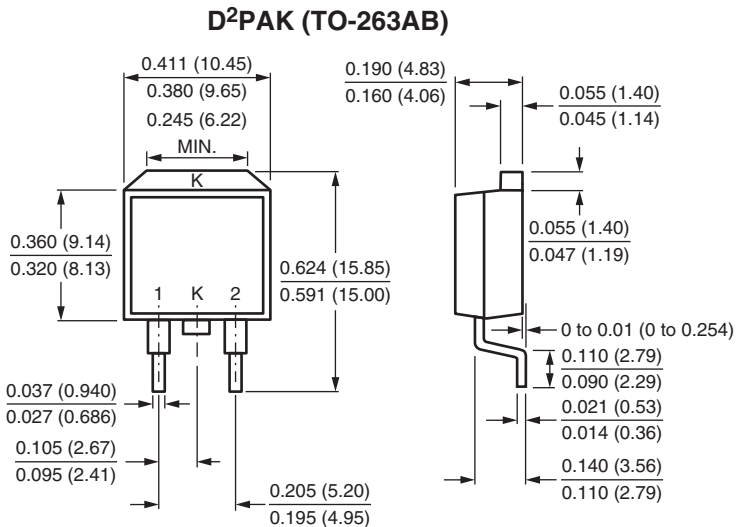
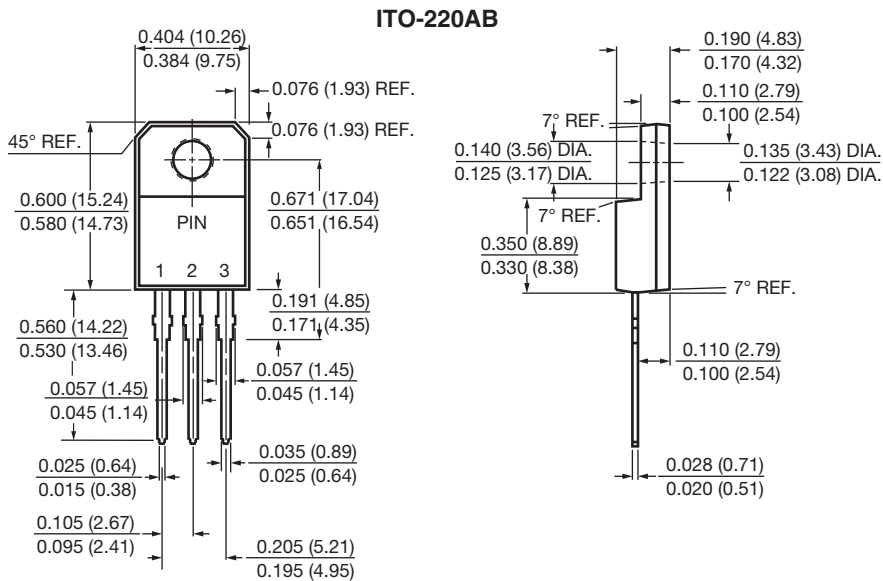
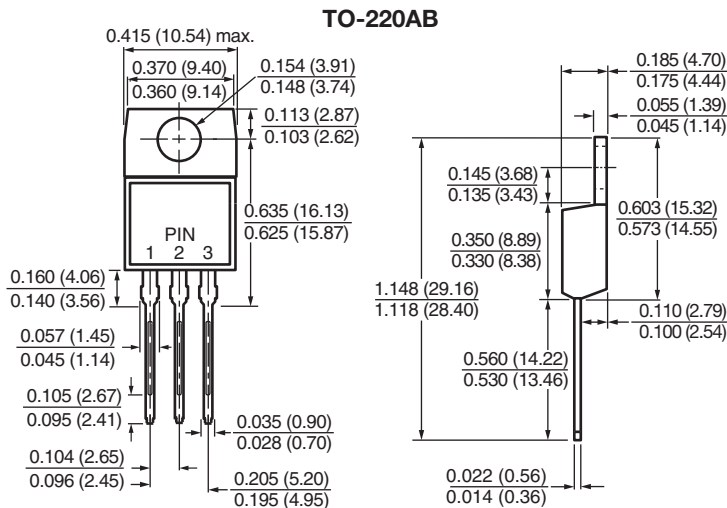


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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