



ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)							
PARAMETER	TEST CONDITIONS		SYMBOL	BYG22A	BYG22B	BYG22D	UNIT
Maximum instantaneous forward voltage	I _F = 1.0 A	T _J = 25 °C	V _F ⁽¹⁾	1.0			V
	I _F = 2.0 A			1.1			
Maximum reverse current	V _R = V _{RRM}	T _J = 25 °C	I _R	1			μA
		T _J = 100 °C		10			
Maximum reverse recovery time	I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A		t _{rr}	25			ns

Note

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

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	BYG22A	BYG22B	BYG22D	UNIT
Maximum thermal resistance, junction to lead, T _L = const.	R _{θJL}	25			°C/W
Maximum thermal resistance, junction to ambient	R _{θJA} ⁽¹⁾	150			°C/W
	R _{θJA} ⁽²⁾	125			
	R _{θJA} ⁽³⁾	100			

Notes

(1) Mounted on epoxy-glass hard tissue

(2) Mounted on epoxy-glass hard tissue, 50 mm² 35 μm Cu

(3) Mounted on Al-oxide-ceramic (Al_2O_3), 50 mm² 35 μm Cu

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
BYG22A-E3/TR	0.064	TR	1800	7" diameter plastic tape and reel
BYG22A-E3/TR3	0.064	TR3	7500	13" diameter plastic tape and reel
BYG22AHE3/TR ⁽¹⁾	0.064	TR	1800	7" diameter plastic tape and reel
BYG22AHE3/TR3 ⁽¹⁾	0.064	TR3	7500	13" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified



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

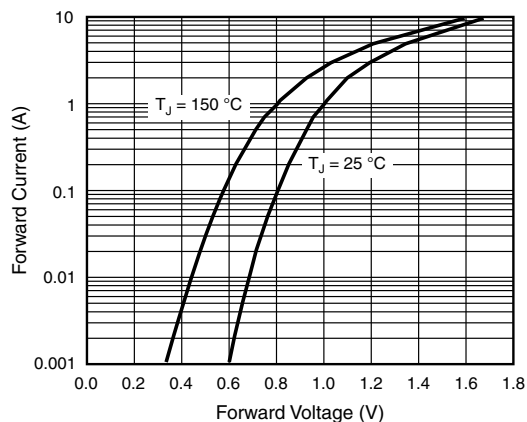


Fig. 1 - Forward Current vs. Forward Voltage

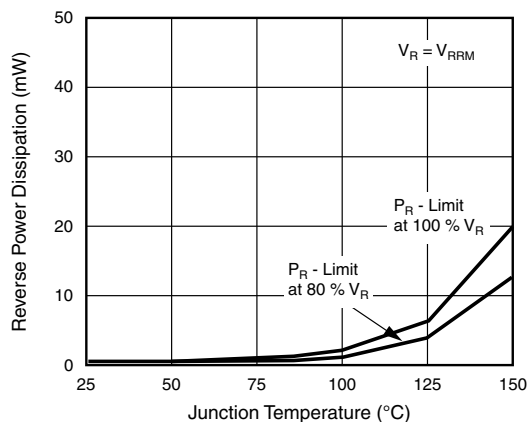


Fig. 4 - Max. Reverse Power Dissipation vs. Junction Temperature

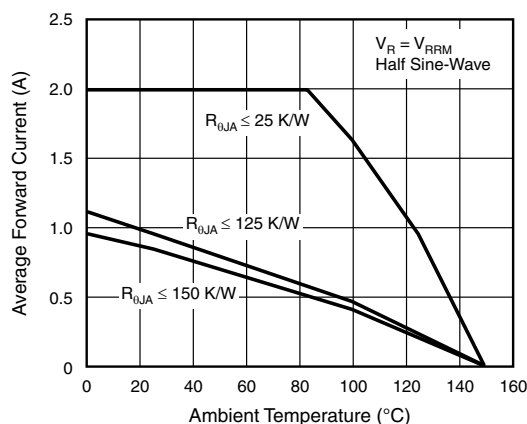


Fig. 2 - Max. Average Forward Current vs. Ambient Temperature

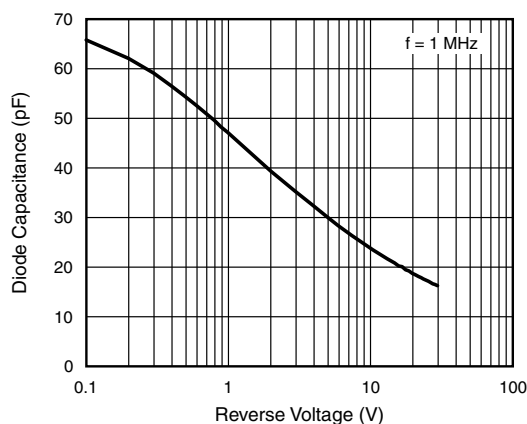


Fig. 5 - Diode Capacitance vs. Reverse Voltage

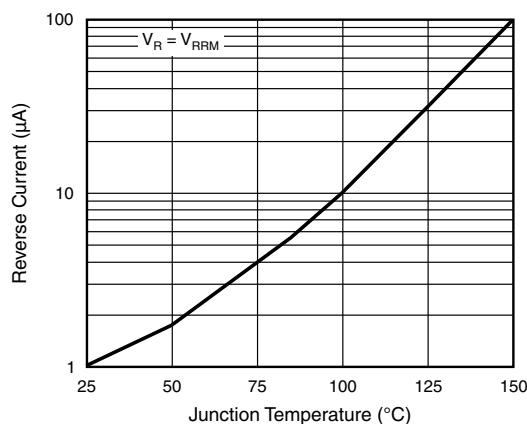


Fig. 3 - Reverse Current vs. Junction Temperature

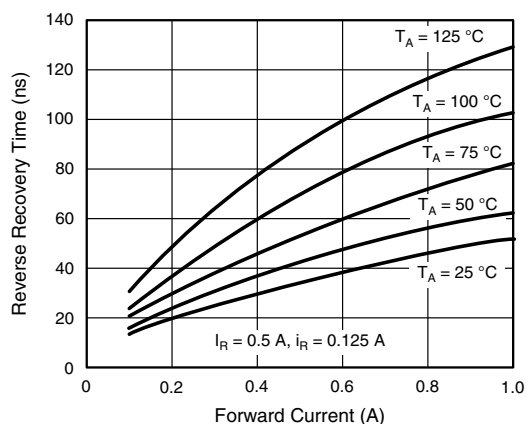


Fig. 6 - Max. Reverse Recovery Time vs. Forward Current

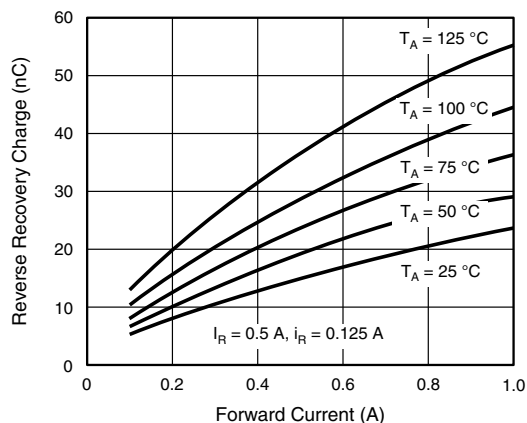


Fig. 7 - Max. Reverse Recovery Charge vs. Forward Current

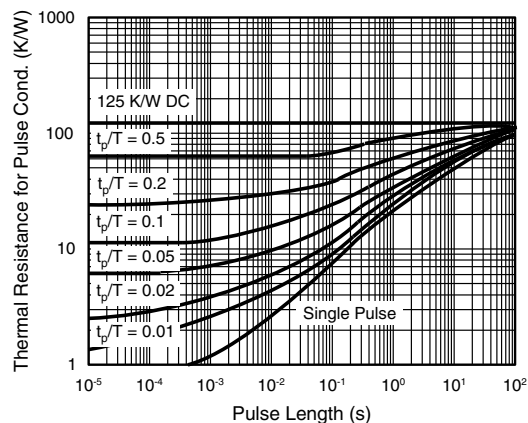
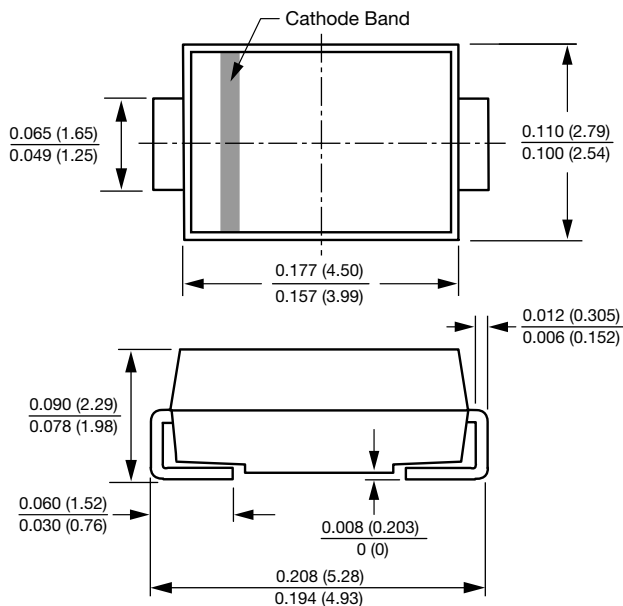
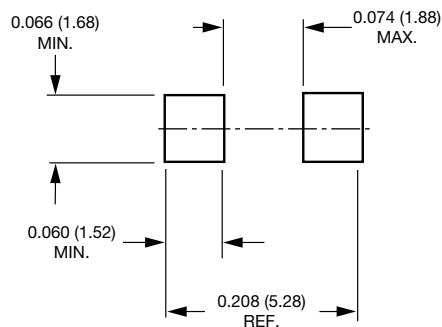


Fig. 8 - Thermal Response

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

DO-214AC (SMA)

Mounting Pad Layout




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