ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)						
PARAMETER	**TEST CONDITIONS**		**SYMBOL**	**TYP.**	**MAX.**	**UNIT**
Instantaneous forward voltage per diode	I_F = 10 A	T_A = 25 °C	V_F (1)	0.65	-	V
	I_F = 20 A			0.74	-	
	I_F = 40 A			0.82	0.91	
	I_F = 10 A	T_A = 125 °C		0.51	-	
	I_F = 20 A			0.59	-	
	I_F = 40 A			0.68	0.76	
Reverse current per diode	V_R = 136 V	T_A = 25 °C	I_R (2)	3.1	-	µA
		T_A = 125 °C		3.8	-	mA
	V_R = 170 V	T_A = 25 °C		-	600	µA
		T_A = 125 °C		7.3	80	mA

Notes

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

(2) Pulse test: Pulse width ≤ 20 ms

THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)				
PARAMETER		**SYMBOL**	**V80170PW**	**UNIT**
Typical thermal resistance	per diode	$R_{\theta JC}$	0.7	°C/W
	per device		0.5	

ORDERING INFORMATION (Example)					
PACKAGE	**PREFERRED P/N**	**UNIT WEIGHT (g)**	**PACKAGE CODE**	**BASE QUANTITY**	**DELIVERY MODE**
TO-3PW	V80170PW-M3/4W	4.5	4W	30/tube	Tube

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

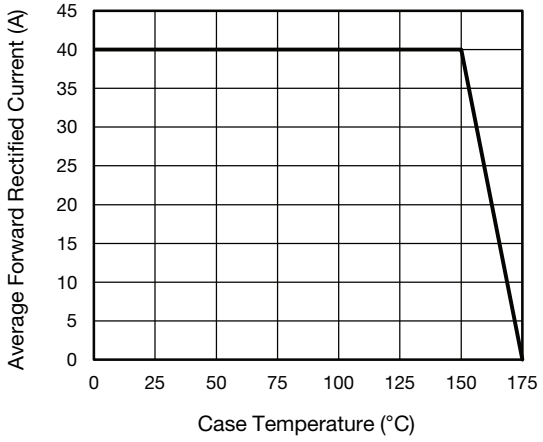


Fig. 1 - Maximum Forward Current Derating Curve

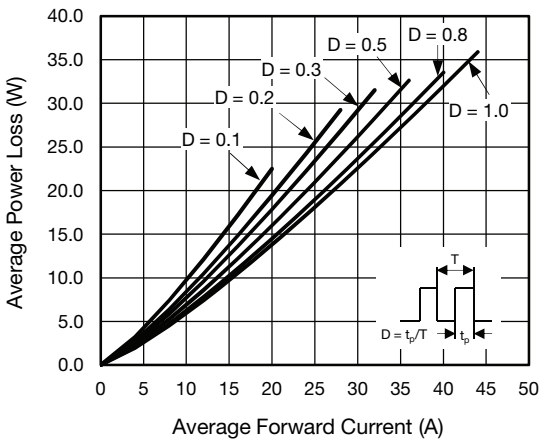


Fig. 2 - Forward Power Loss Characteristics Per Diode

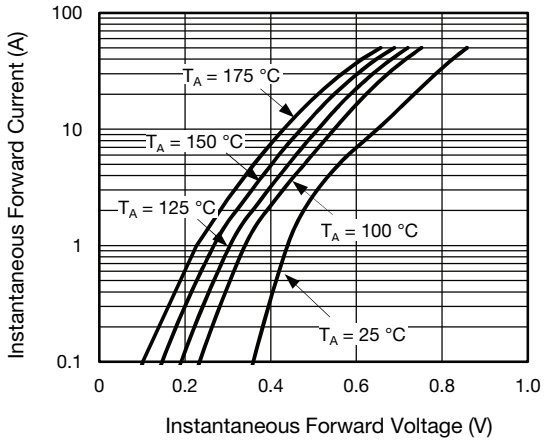


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

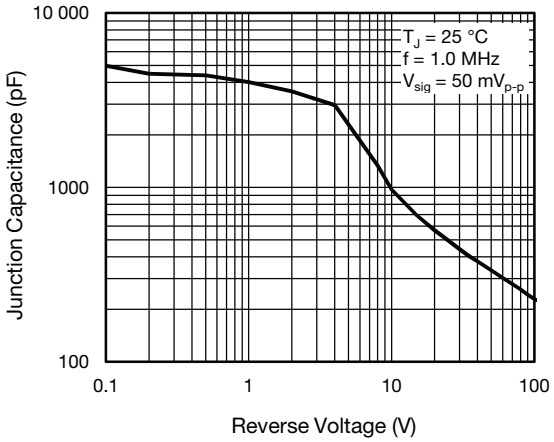


Fig. 5 - Typical Junction Capacitance Per Diode

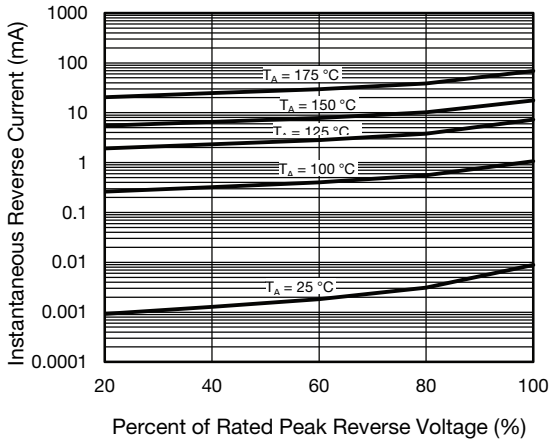


Fig. 4 - Typical Reverse Characteristics Per Diode

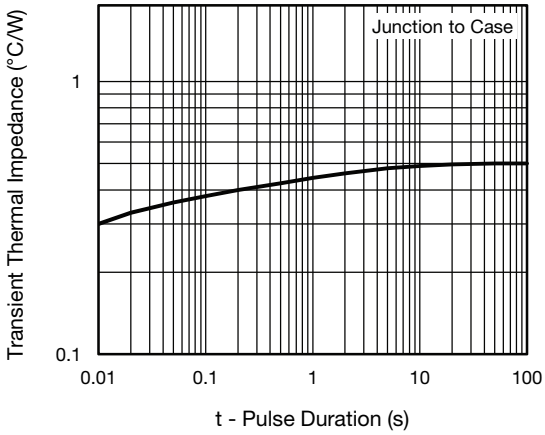
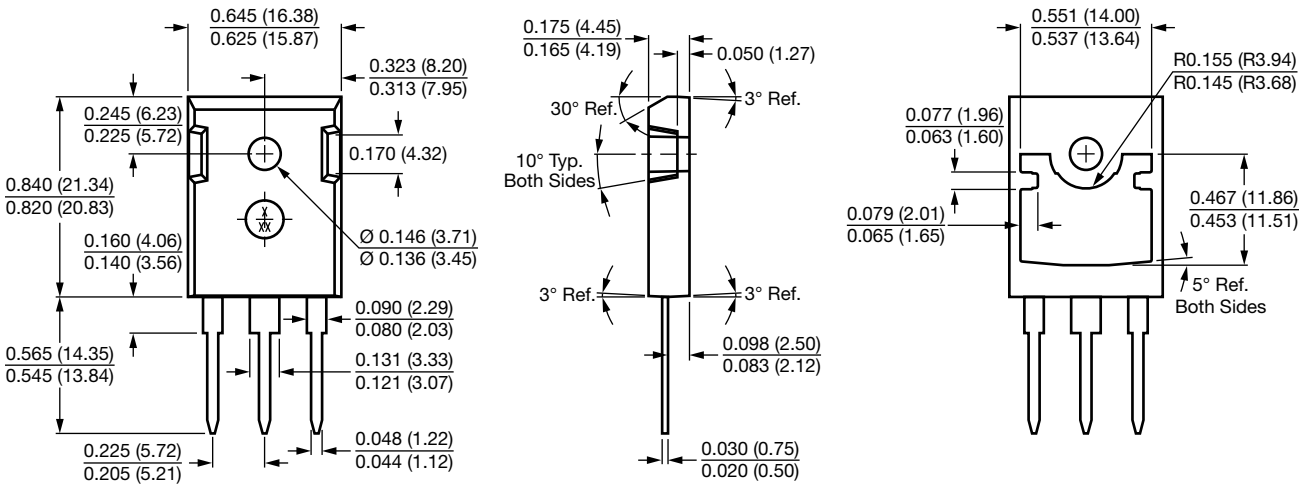


Fig. 6 - Typical Transient Thermal Impedance Per Device

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

TO-3PW



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