



ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Instantaneous forward voltage per diode	I _F = 1.0 A	T _A = 25 °C	V _F ⁽¹⁾	0.84	-	V
	I _F = 2.0 A			0.93	1.05	
	I _F = 1.0 A	T _A = 125 °C		0.68	-	
	I _F = 2.0 A			0.77	0.85	
Reverse current per diode	Rated V _R	T _A = 25 °C	I _R ⁽²⁾	-	5	μA
		T _A = 125 °C		6.4	25	
Maximum reverse recovery time per diode	I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A		t _{rr}	20	25	ns
Typical reverse recovery time per diode	I _F = 1.0 A, dI/dt = 50 A/μs, V _R = 30 V, I _{rr} = 0.1 I _{RM}			24	-	
Typical softness factor (t _b /t _a)per diode	I _F = 2 A, dI/dt = 200 A/μs, V _R = 200 V, I _{rr} = 0.1 I _{RM} T _A = 125 °C		S	0.3	-	-
Typical reverse recovery current per diode			I _{RM}	5.4	-	A
Typical stored charge per diode			Q _{rr}	88	-	nC
Typical junction capacitance per diode	4.0 V, 1 MHz		C _J	21	-	pF

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

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise specified)					
PARAMETER	SYMBOL	UH4PBC	UH4PCC	UH4PDC	UNIT
Typical thermal resistance per diode	R _{θJA} ⁽¹⁾	60			°C/W
	R _{θJL}	4			

Note

(1) Units mounted on recommended PCB 1 oz. pad layout

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
UH4PDC-M3/86A	0.10	86A	1500	7" diameter plastic tape and reel
UH4PDC-M3/87A	0.10	87A	6500	13" diameter plastic tape and reel
UH4PDCHM3/86A ⁽¹⁾	0.10	86A	1500	7" diameter plastic tape and reel
UH4PDCHM3/87A ⁽¹⁾	0.10	87A	6500	13" diameter plastic tape and reel

Note

(1) Automotive grade



RATINGS AND CHARACTERISTICS CURVES

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

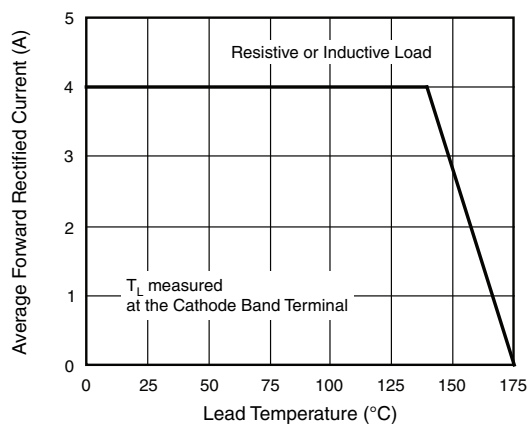


Fig. 1 - Maximum Forward Current Derating Curve

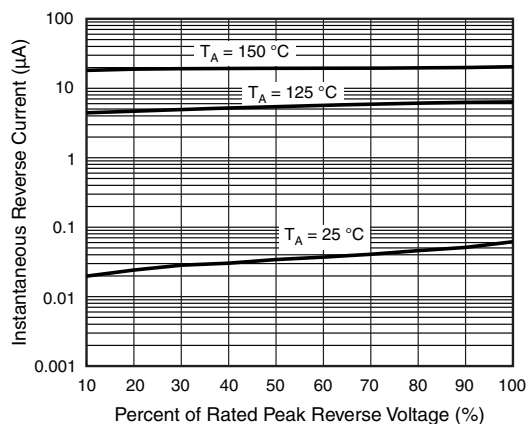


Fig. 4 - Typical Reverse Leakage Characteristics Per Diode

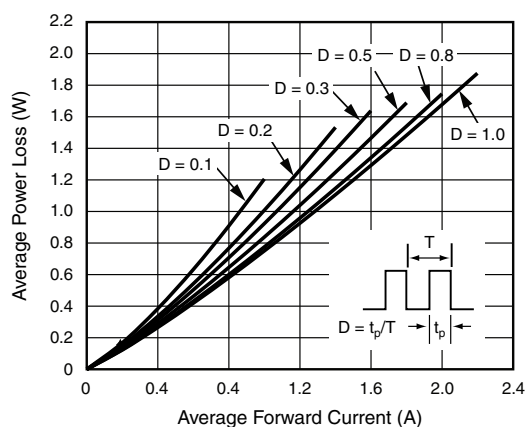


Fig. 2 - Forward Power Loss Characteristics Per Diode

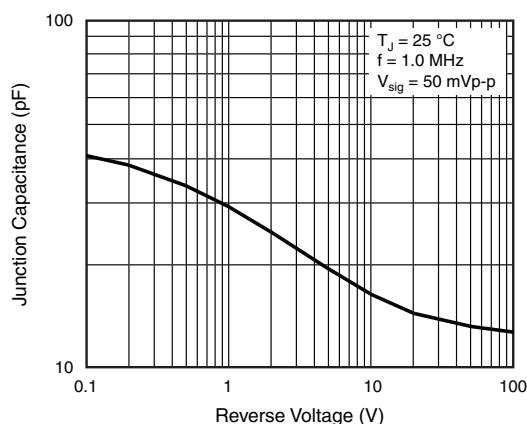


Fig. 5 - Typical Junction Capacitance Per Diode

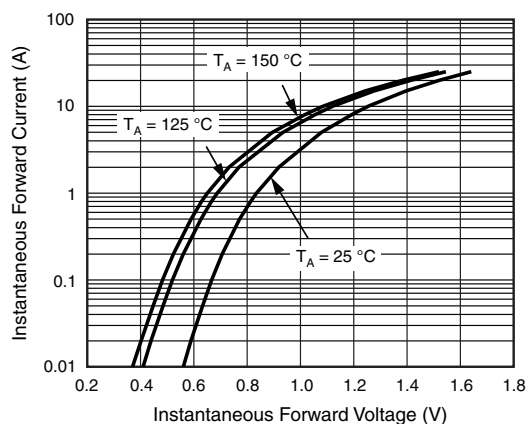


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

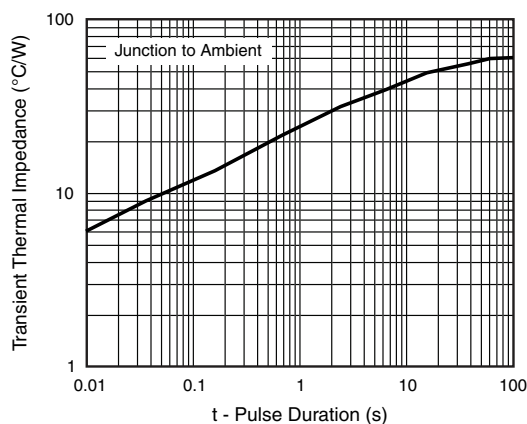
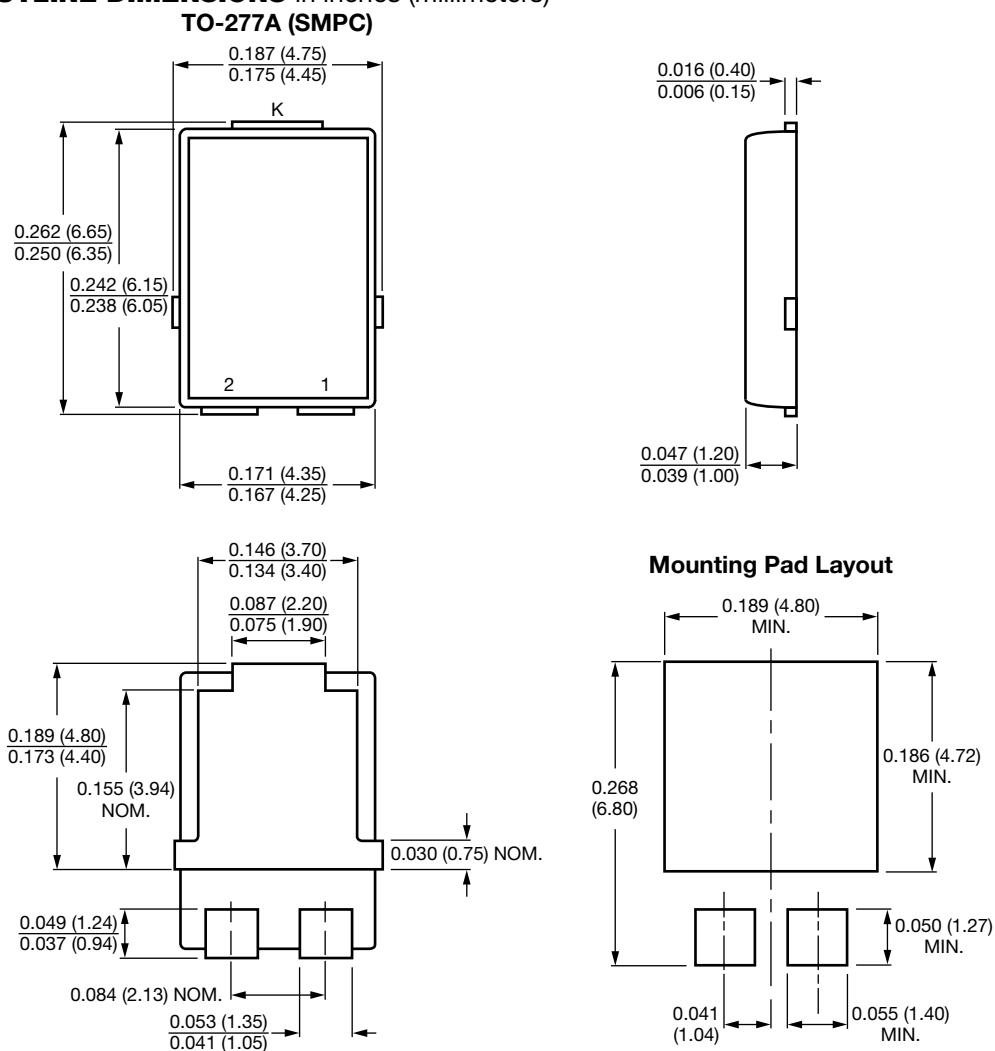


Fig. 6 - Typical Transient Thermal Impedance Per Diode



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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