1.0A Surface Mount Rectifier

Features

1. High current capability
2. Low reverse leakage current
3. Low forward voltage drop
4. Plastic material – UL recognition flammability classification 94V – 0
5. For surface mounted applications

Absolute Maximum Ratings

T_j=25℃

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage = Working peak reverse voltage = DC blocking voltage		M1	V_{RRM} =V_{RWM} =V_R	50	V
		M2		100	V
		M3		200	V
		M4		400	V
		M5		600	V
		M6		800	V
		M7		1000	V
Peak forward surge current			I_{FSM}	30	A
Average forward current	T_A=75℃		I_{FAV}	1	A
Storage temperature range			T_{stg}	-65~+175	℃

Electrical Characteristics

T_j=25℃

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=1A		V_F			1	V
Reverse current	T_A=25℃		I_R			5	μA
	T_A=100℃		I_R			50	μA
Diode capacitance	V_R=4V, f=1MHz		C_D		15		pF

Characteristics (T_j=25℃ unless otherwise specified)

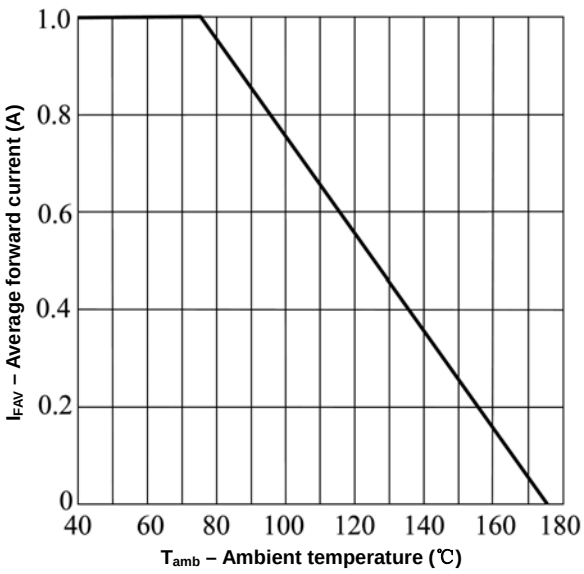


Figure 1. Max. Average forward current vs. ambient temperature

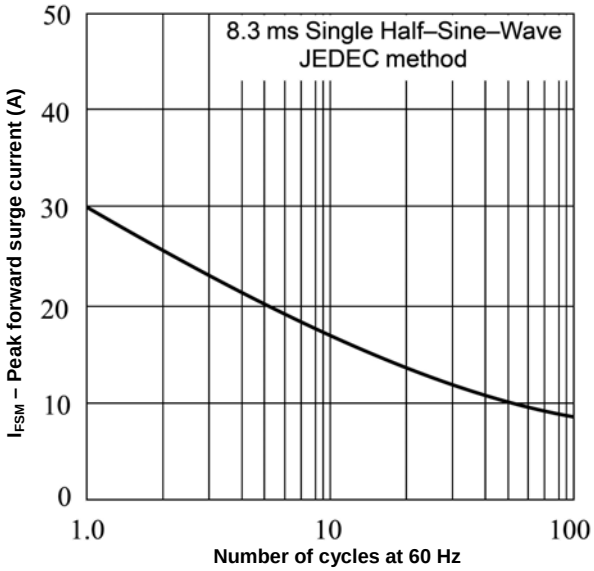


Figure 2. Max. Peak forward surge current vs. Number of cycles

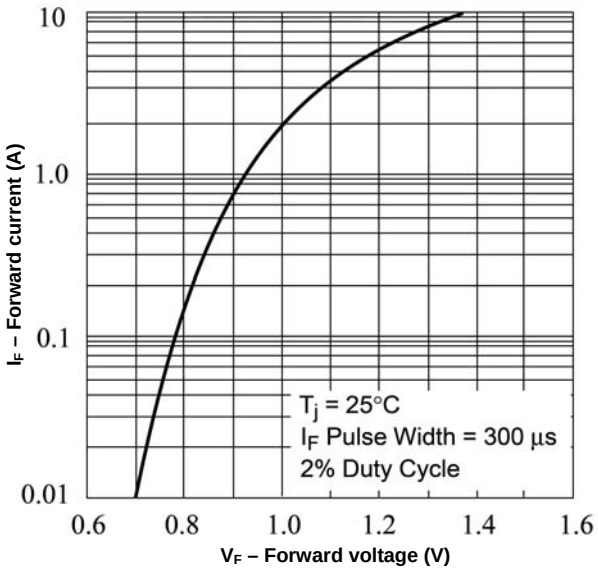


Figure 3. Typ. forward current vs. forward voltage

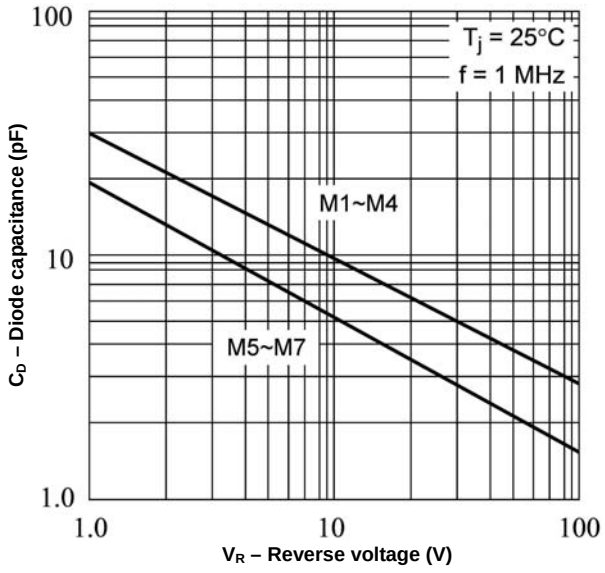
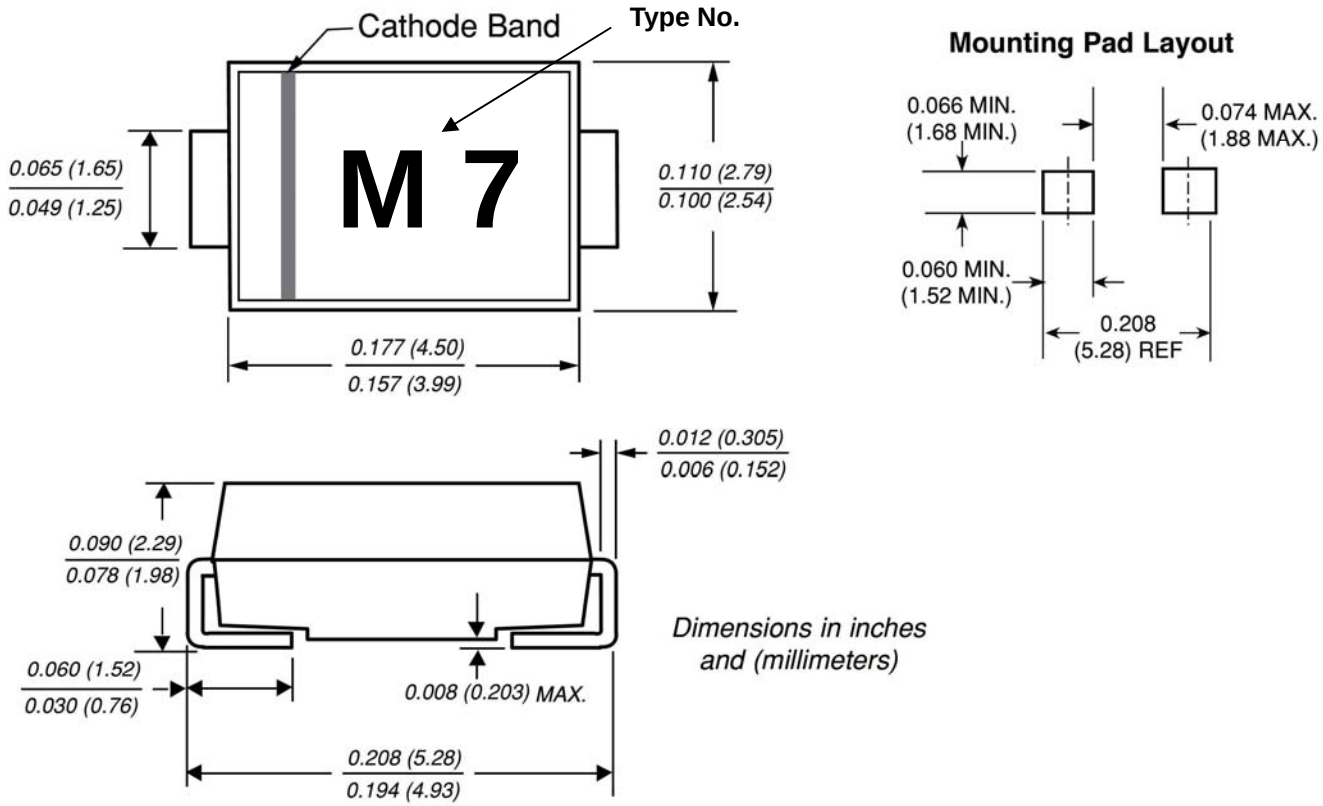


Figure 4. Typ. diode capacitance vs. reverse voltage

Dimensions in inches (mm)



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