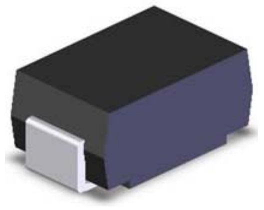
特征 FEATURES

- ■ 低的反向漏电流 Low reverse leakage
  较强的正向浪涌承受能力 High forward surge capability
- ■ 高温焊接保证 High temperature soldering guaranteed:
  250℃/10 秒 seconds at terminals

机械数据 Mechanical Date

封装: 塑料封装
端子: 焊料被镀
极性: 色环端为负极
安装位置: 任意

- ■ Case: JEDEC DO-214AC molded plastic body.
- ■ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ■ Mounting Position: Any
- ■ Polarity: Laser band denotes cathode end
- ■ Weight: 0.002 ounce, 0.07 grams



SMA（DO-214AC）

Major Ratings and Characteristics

$I_{F(AV)}$	1.0 A
V_{RRM}	50V to 1000V
I_{FSM}	20 A
V_F	1.1 V
T_j (max.)	125℃

■ Maximum Ratings & Thermal Characteristics (T$_A$=25℃, unless otherwise noted)

Items	Symbol	M1	M2	M3	M4	M5	M6	M7	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	
Maximum average forward rectified current at T_L=110℃	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	20							
Thermal resistance from junction to ambient (1)	$R_{\theta JA}$	75							℃/W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +125							℃

Note 1: Mounted on P.C.B. with 0.2 ×0.2" (5.0 ×5.0mm) copper pad areas.

■ Electrical Characteristics (T$_A$=25℃, unless otherwise noted)

Items	Test conditions		Symbol	Min.	Typ.	Max.	UNIT
Instantaneous forward lt	I_F=1.0A (2)		V_F	--	--	1.10	V
Reverse current	V_R=V_{DC}	T_J=25℃	I_R	--	--	5	μA
		T_J=100℃		--	--	50	
Typical junction capacitance	4.0V, 1MHz		C_J	--	15.0	--	pF

Note 2: Pulse test: 300μs pulse width, 1% duty cycle.

Characteristic Curves (T$_A$=25℃ unless otherwise noted)

Fig 1: FORWARD CURRENT DERATING CURVE

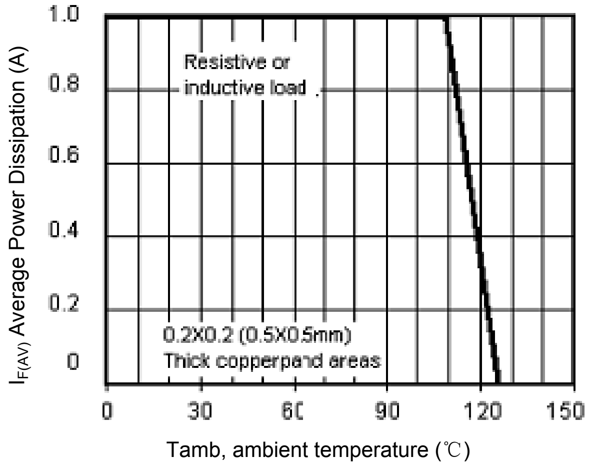


Fig 2: MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

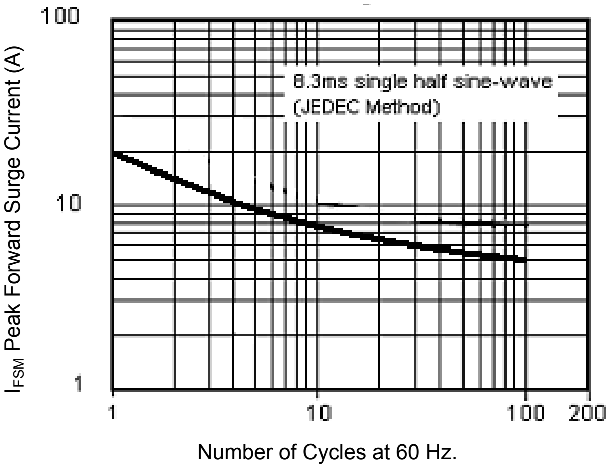


Fig 3: TYPICAL FORWARD CHARACTERISTIC

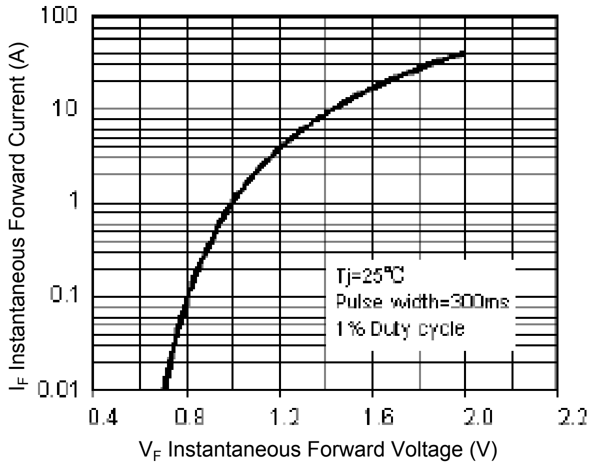


Fig 4: TYPICAL REVERSE CHARACTERISTICS

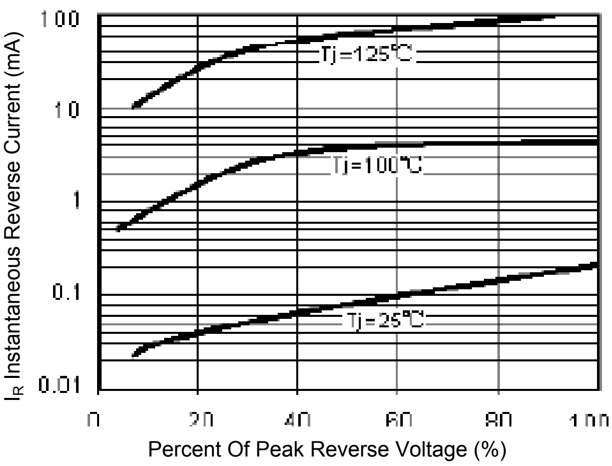


Fig 5: TYPICAL JUNCTION CAPACITANCE

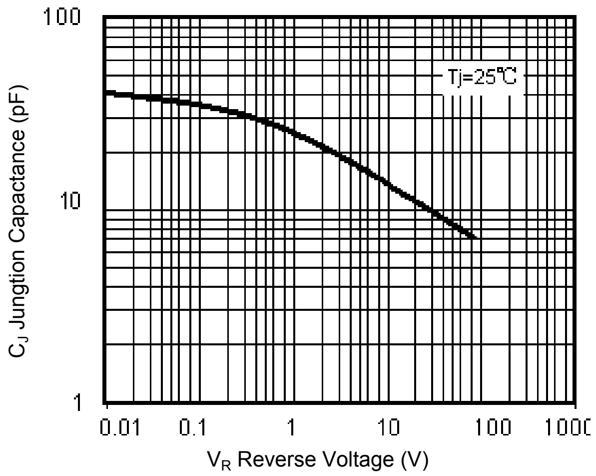
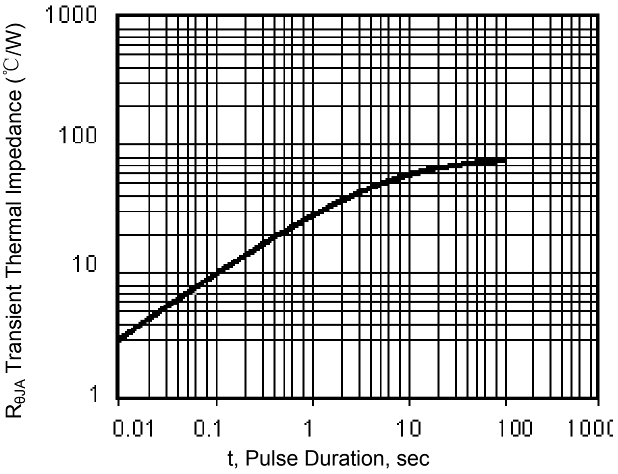
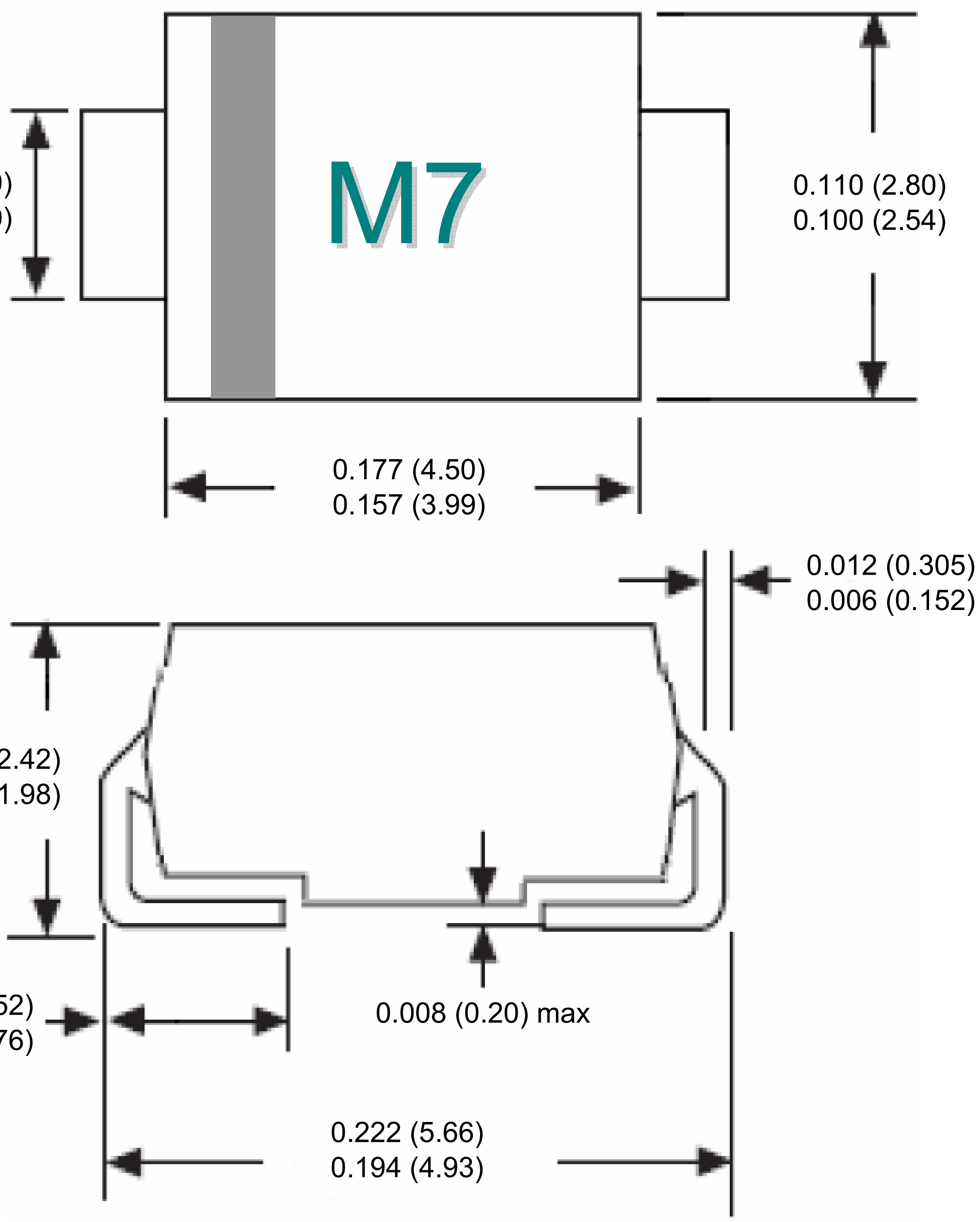


Fig 6: TYPICAL TRANSIENT THERMAL IMPEDANCE



Package Outline

SMA
DO-214AC



Dimensions in inches and (millimeters)

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