

PRIMARY CHARACTERISTICS	
V_{RRM}	20V~200V
I_o	3A
V_F	0.55V,0.70V,0.85V,0.95V
$T_{J,Max}$	150°C

FEATURES

- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier. majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 250°C /10 seconds at terminals
- Moisture Sensitivity Level 1

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

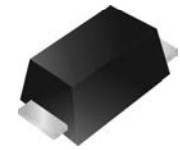
	Symbols	UM54CHP	UM56CHP	UM58CHP	UM5: CHP	UM532CHP	UM537CHP	UM542CHP	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current See Fig. 1	$I_{(AV)}$	3.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							Amp
Maximum Forward Voltage at 3.0A (Note 1)	V_F	0.55	0.70	0.85		0.95		Volts	
Maximum Reverse Current at $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	I_R	0.5			0.3		mAmp		
		5			3				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	70							°C/W
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{stg}	-55 to +150							°C

NOTES:

- 1- Pulse test: 300µs pulse width, 1% duty cycle
- 2- P.C.B. mounted with 2 x 2" (5 x 5mm) Copper Pad Areas

SMAF PACKAGE

Marking : SK34AFN~SK320AFN
Ex : SK32AF



V:Product Lines
Y:1-digit BC year code, 4-2014,5-2015...etc
M:Month, EX: 1-1,2-2,---10-O 11-N 12-D



MECHANICAL DATA

- Case : Molded plastic,SMAF
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

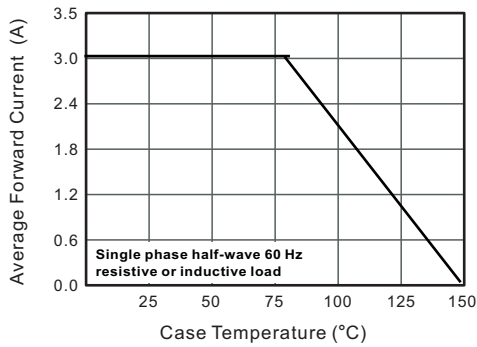


Fig.2 Typical Reverse Characteristics

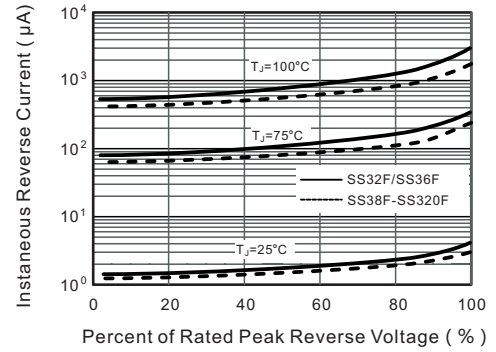


Fig.3 Typical Forward Characteristic

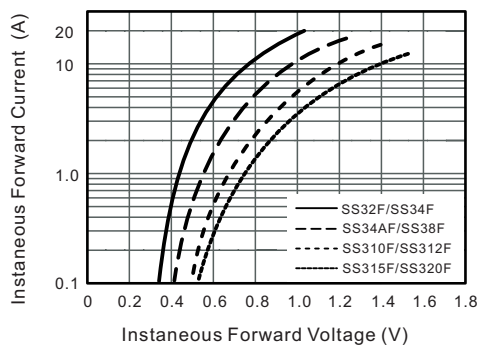


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

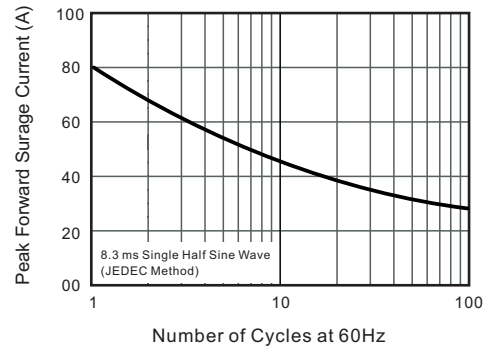
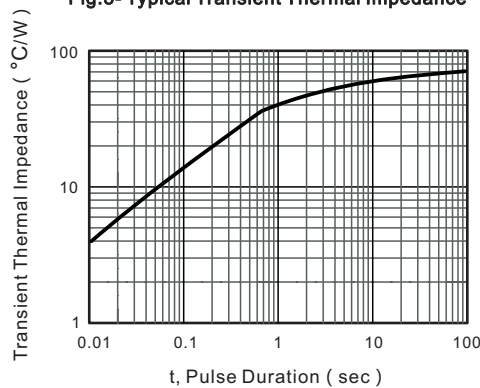
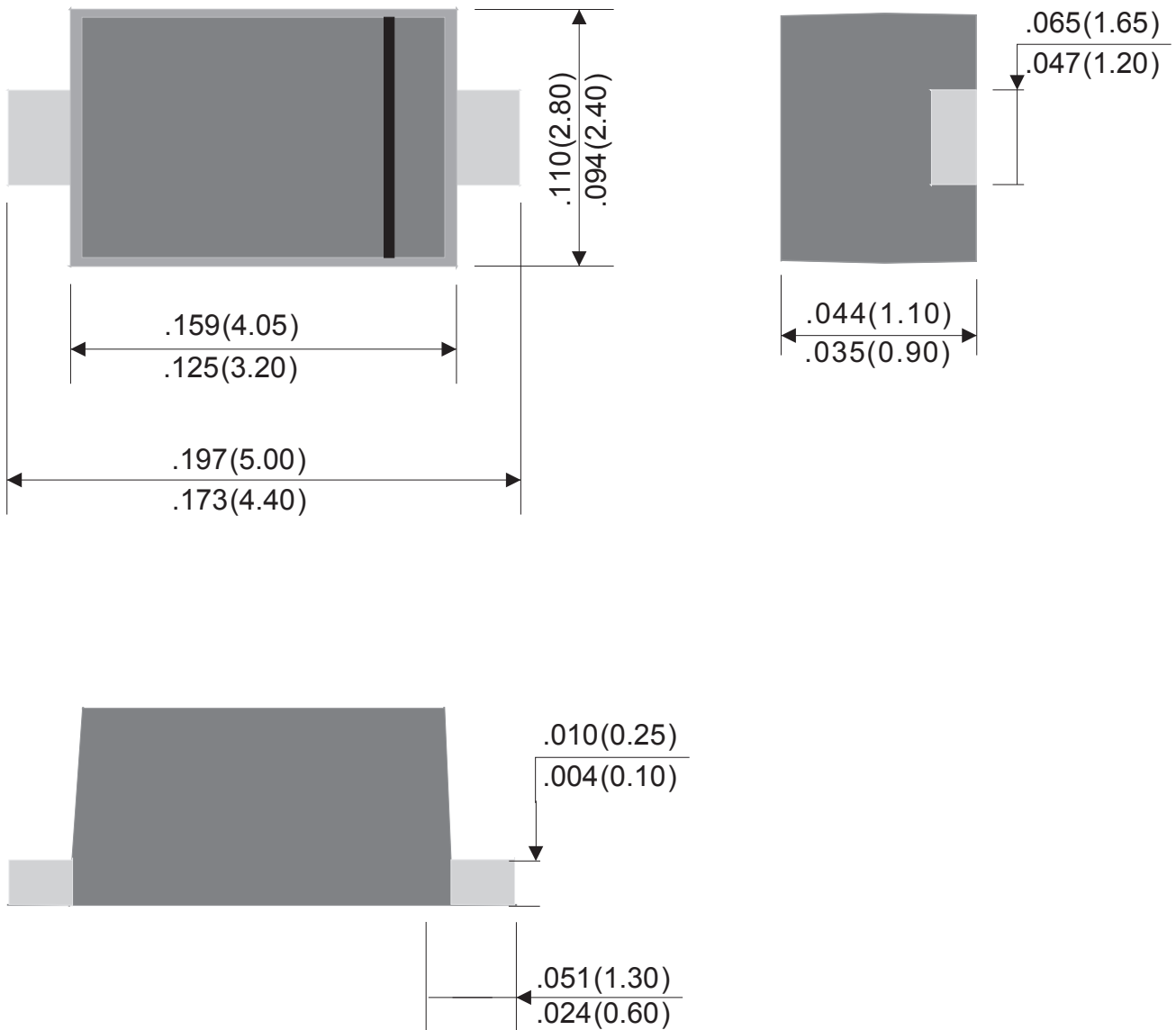


Fig.5- Typical Transient Thermal Impedance



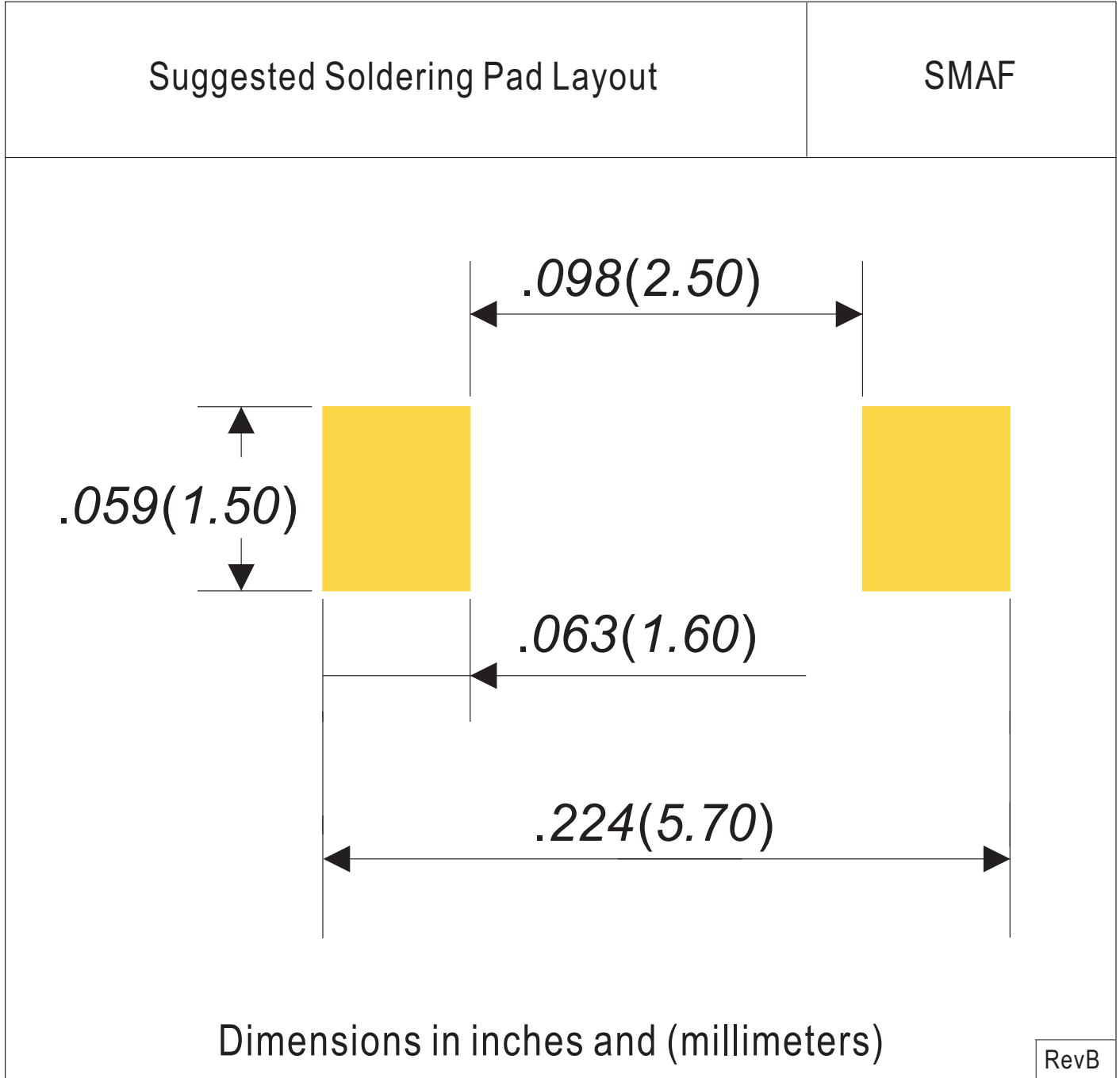
Outline Drawing

SMAF(DO-221AC)



Dimensions in inches and (millimeters)

Rev.E



Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ -WS ⁽³⁾	Tape&Reel: Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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