

PRIMARY CHARACTERISTICS	
V_{RRM}	40V,45V,60V,100V
I_O	5A
V_F	0.45V,0.55V,0.75V
$T_{J,Max}$	150°C

SMAF PACKAGE

Marking :

5L40,5L45,5L60,5L100



Ex : FM5L60-AHS



Pin1 cathode
Pin2 anode



FEATURES

- High current density schottky
- Very low profile typical height of 1.0 mm
- Ideal for automated placement
- Low power loss high efficiency
- Low forward voltage drop
- Moisture Sensitivity Level 1

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

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FM5L40-AHS	FM5L45-AHS	FM5L60-AHS	FM5L100-AHS	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	100	Volts
Maximum RMS Volts	V_{RMS}	28	31.5	42	70	Volts
Maximum DC Blocking Voltage	V_{DC}	40	45	60	100	Volts
Maximum Average Forward Current	I_O	5.0				Amps
Non-repetitive peak forward surge current 1.0ms square-wave	I_{FSM}	150				Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	63				°C/W
	$R_{\theta JC}$	33				
Operating Storage Temperature Range	T_J	-55~125		-55~150		°C
Storage Temperature Range	T_{STG}	-55~150				°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	FM5L40-AHS	FM5L45-AHS	FM5L60-AHS	FM5L100-AHS	UNITS
Marking Code		5L40	5L45	5L60	5L100	
Maximum Forward Voltage at 5.0A DC	V_F	0.45		0.55	0.75	Volts
Maximum reverse leakage current at rated VR	@Tj = 25°C	0.5				mAmps
	@Tj = 100°C	20				

Notes: 1. Mounted on FR-4 PCB Copper, minimum recommended pad layout

Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

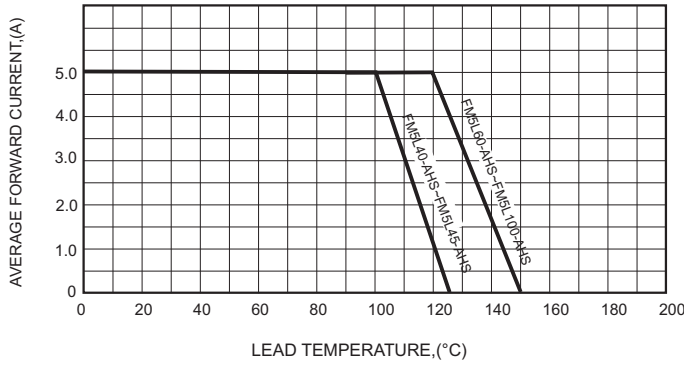


FIG.2-TYPICAL FORWARD CHARACTERISTICS

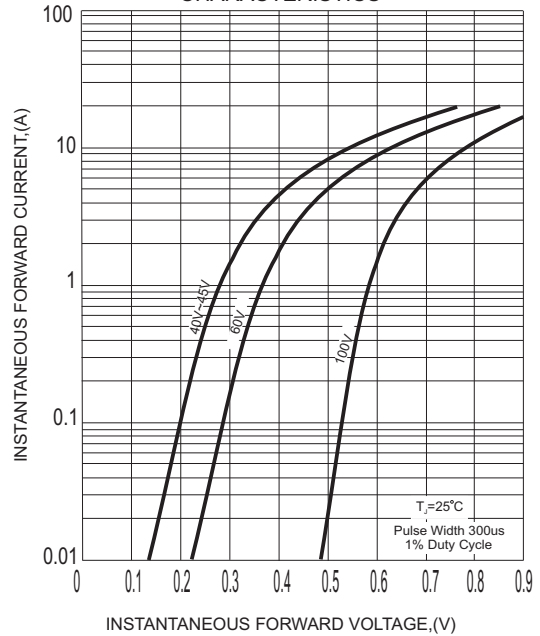


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

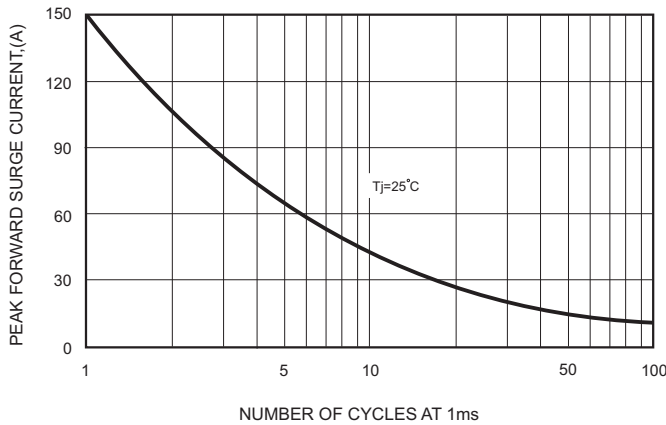
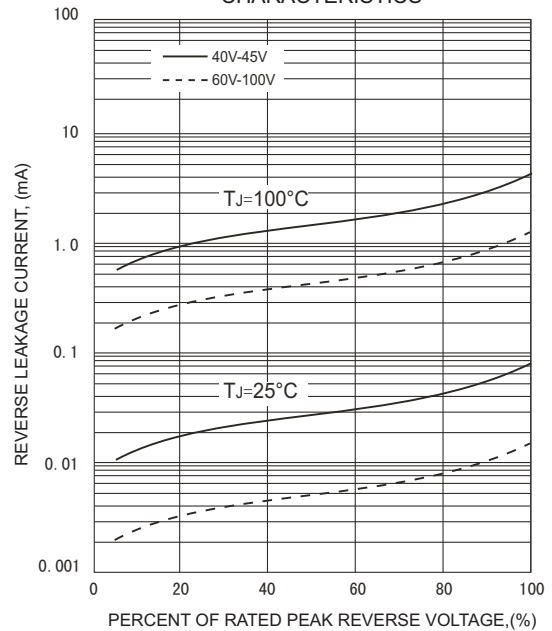
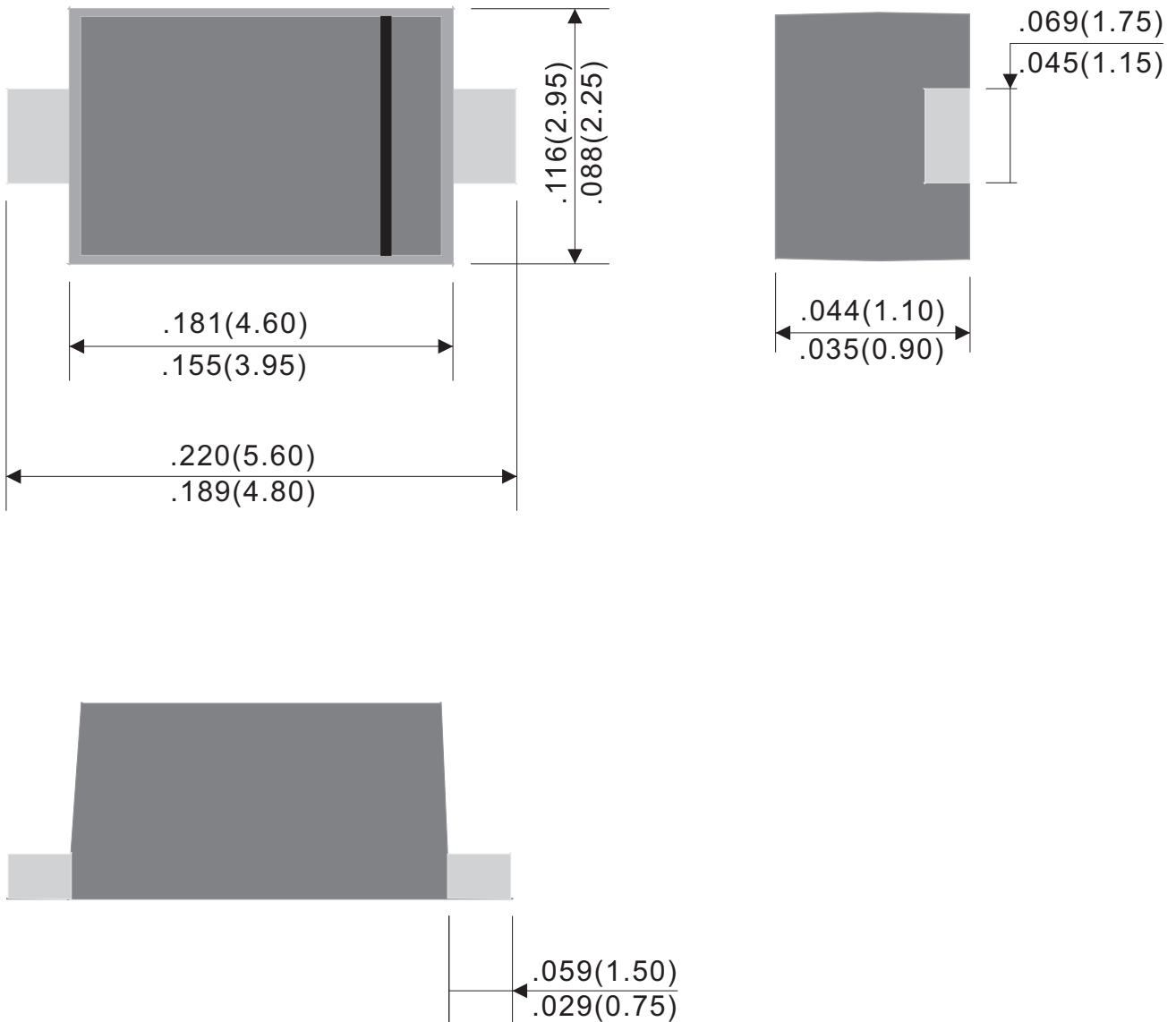


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



Outline Drawing

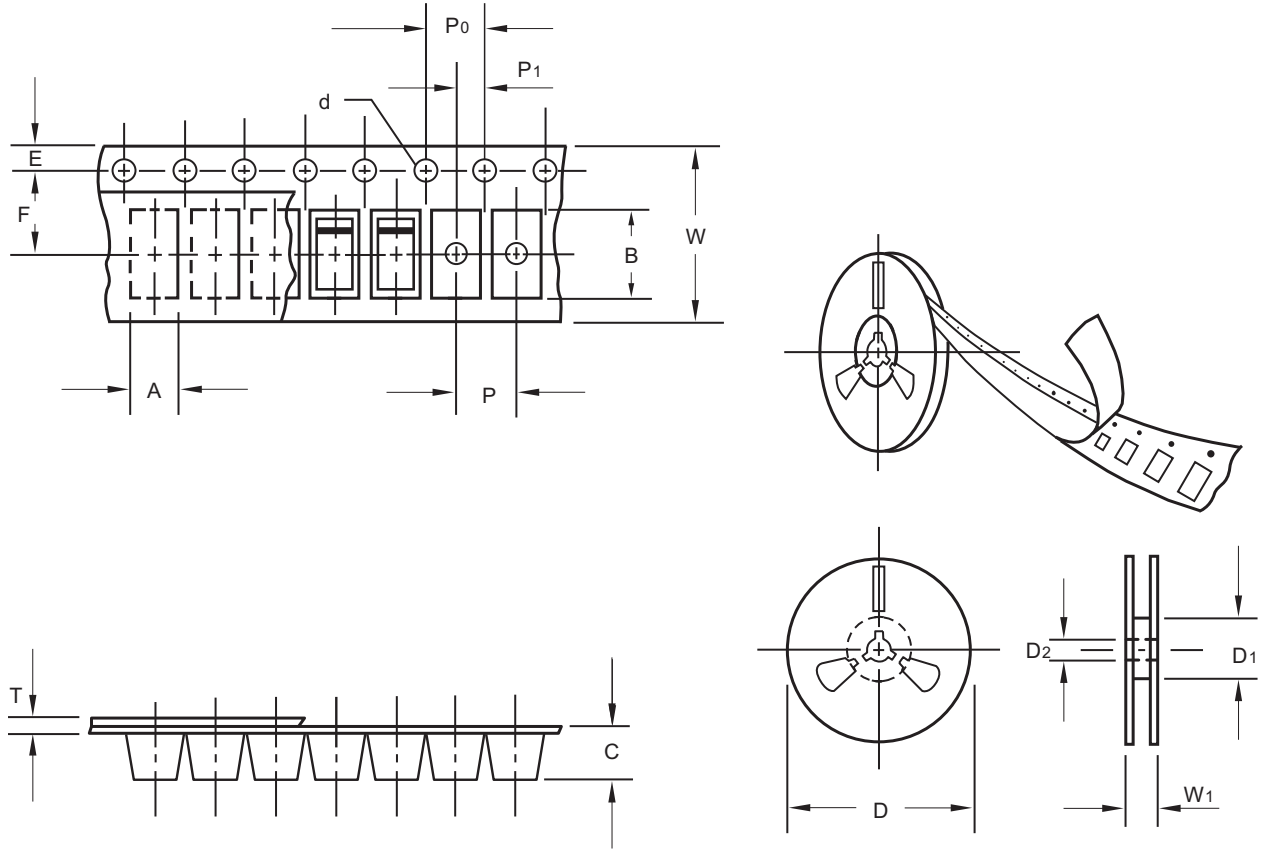
SMAF(DO-221AC)



Dimensions in inches and (millimeters)

Rev.B

Packing information



unit:mm

Item	Symbol	Tolerance	SMA-HS
Carrier width	A	0.1	3.00
Carrier length	B	0.1	5.50
Carrier depth	C	0.1	1.20
Sprocket hole	d	0.1	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D ₁	min	50.00
7" Reel outside diameter	D	2.0	178.00
7" Reel inner diameter	D ₁	min	62.00
Feed hole diameter	D ₂	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.50
Punch hole pitch	P	0.1	4.00
Sprocket hole pitch	P ₀	0.1	4.00
Embossment center	P ₁	0.1	2.00
Overall tape thickness	T	0.1	0.25
Tape width	W	0.3	12.00
Reel width	W ₁	1.0	11.40

Note: Devices are packed in accordance with EIA standard RS-481-A and specifications listed above.

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ H ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

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

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

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