

FEATURES

- Average Forward Current:I_{F(AV)}=1A
- Polarity: Color band denotes cathode



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
M1F-M7F	SMAF	M ⊁ F	10000			



★:From 1-7

MAXIMUM RATINGS (Ta=25 unless otherwise noted)

		Unit	Test Conditions	M							
Item	Symbol			1F	2F	3F	4F	5F	6F	7F	
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	٧		35	70	140	280	420	560	700	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave , Resistance load , T _L =75 C	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave , 1 cycle , Ta=25℃	30							
Operation Junction and Storage Temperature Range	T _J ,T _{STG}	$^{\circ}$		-55 ~ + 150							

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

						M						
Item	Symbol	Unit	Test Condition		1F	2F	3F	4F	5F	6F	7F	
Peak Forward Voltage	V _F	V	I _F =1.0A			1.0						
Peak Reverse Current	I _{RRM1}	μА	V _{RM} =V _{RRM}	T _a =25℃				5				
	I _{RRM2}			T _a =125℃				50				
Thermal	$R_{\theta J\text{-}A}$	°C/W	Between juncti	on and ambient	55							
Resistance(Typical)	$R_{\theta J-L}$	CIVV	Between junction and terminal			25						

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics

FIG.1-TYPICAL FORWARD

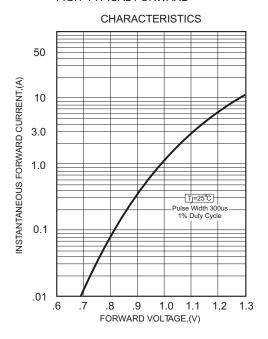
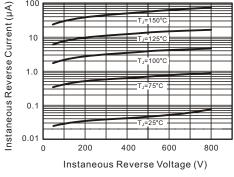


FIG.3 - TYPICAL REVERSE



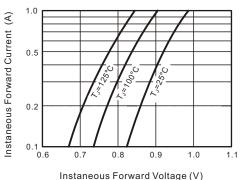


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

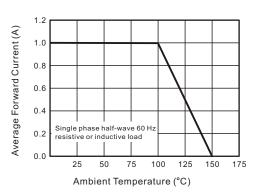


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

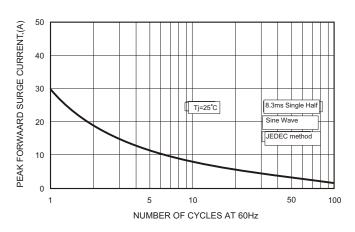
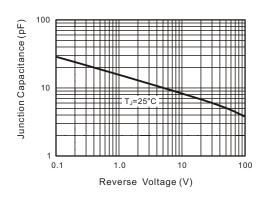
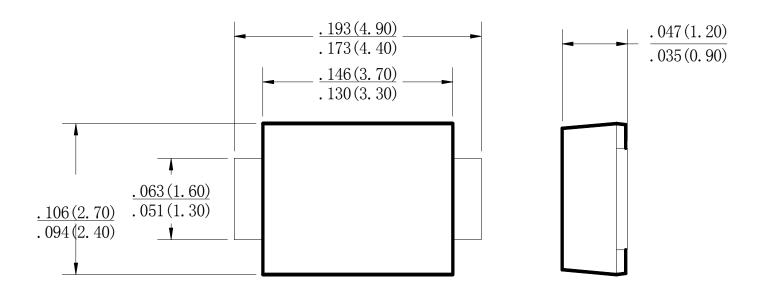


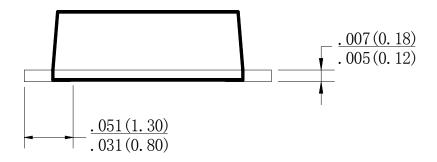
FIG.5-TYPICAL JUNCTION CAPACITANCE





SMAF Package Outline Dimensions





Dimensions in inches and (millimeters)



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>>HXY MOSFET(华轩阳电子)