

Rectifier diode Reverse Voltage1000v Forward current-2A

Features

Glass passivated chip
High surge current capability
Ldeal for surface mounted applications
Low power loss, high efficiency
Plastic Case Material has UL Flammability

Mechanical Data

Package: SMAF

Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25 $^{\circ}$ C Unless otherwise specified)

Type Number	SYMBOL	S2MF	Umit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V	
Maximum RMS Voltage	V _{RMS}	700	V	
Maximum DC Blocking Voltage	V _{DC}	1000	V	
Maximum Average Forward Rectified Current	IO _(AV)	2.0	А	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	60.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	II OW	120.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	I ² t	14.9	A ² S	
Maximum Forward Voltage at 2.0A DC	V _{FM}	1.1	V	
Maximum Reverse Current $TA = 25^{\circ}$	IR	5.0	uA	
at Rated DC Blocking Voltage TA = 125℃		100.0		
Typical Thermal Resistance Between junction and	R_{QJa}	65.0	℃/W	
Operating Junction Temperature Range	T _J	55to+150	$^{\circ}$	
Storage Temperature Range	T _{STG}	55to+150	$^{\circ}$	

S2MF

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

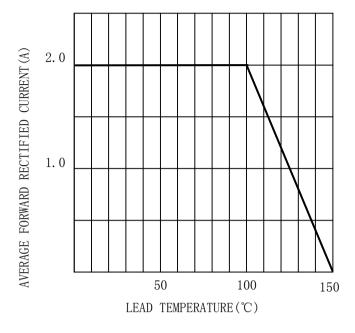


FIG. 2TYPICAL FORWARD CHARACTERISTICS

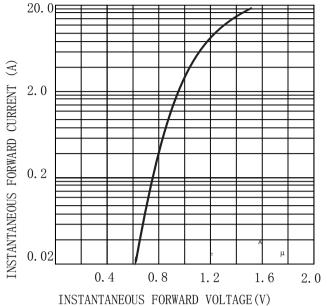


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

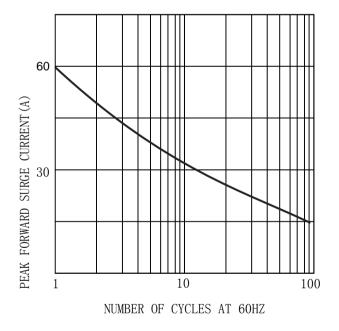
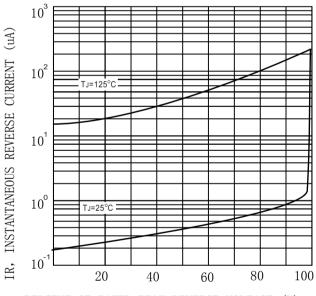


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION



= Logo

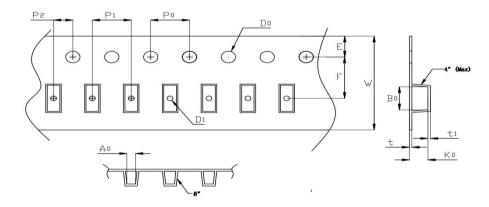
**** = Date Code Marking

S2M = Marking Code

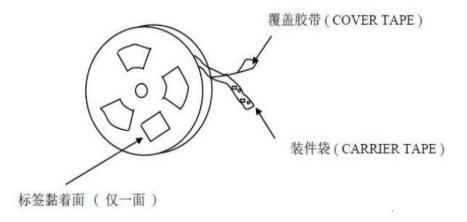
Print according to customer request

PACKING REQUIRMENTS

· Carrier tape packing



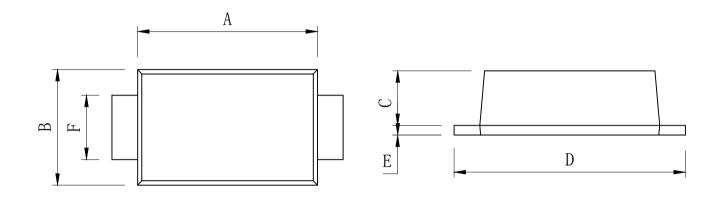
	Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
Ī	SMAF	Anti-static	2.83± 0.10	4.9± 0.10	1.45± 0.05	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVICE TYPE	Tape width	13"Reel			7'\Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMAF	12mm	10000	20	200000	3000	64	192000

Outline Dimensions

SMAF



SMAF					
DIM	INC	HES	MM		
	MIN	MAX	MIN	MAX	
A	0. 13	0. 15	3. 2	3.8	
В	0.09	0. 11	2.3	2. 7	
С	0.03	0.05	0.8	1.2	
D	0. 16	0.20	4	5	
Е	/	0.01	/	0.3	
F	0.04	0.08	1	2	



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