

四川旭茂微科技有限公司

Sichuan Xu Mao Micro Technology Co., Ltd ES1AF THRU ES1JF

Express recovery diode Reverse Voltage50V-600v Forward current-1A

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°C Unless otherwise specified)

		ES1					
Type Number	SYMBOL	AF	BF	DF	GF	JF	Umit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current	IO _(AV)	1.0					А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	25.0			A		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	50.0				A		
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	2.6			A ² S		
Maximum Forward Voltage at 1.0A DC	V_{FM}	0.95 1.3 1.7		1.7	V		
Maximum Reverse Current TA = 25° C	– IR	5.0			uA		
at Rated DC Blocking Voltage TA = 125°	IR	100.0		uA			
Maximum reverse recovery time	Trr	35.0				ns	
Typical Thermal Resistance Between junction and	R_{QJa}	65.0			°C/W		
Operating Junction Temperature Range	TJ					°C	
Storage Temperature Range	T _{STG}					°C	



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MARKING INFORMATION



Section = Logo
**** = Date Code Marking
ES1* = Marking Code

Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
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	



覆盖胶带(COVER TAPE)

装件袋(CARRIER TAPE)

标签黏着面(仅一面)

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



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SMAF							
DIM	INC	HES	MM				
	MIN	MAX	MIN	MAX			
А	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			
E	/	0.01	/	0.3			
F	0.04	0.08	1	2			



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