

Ultrafast recovery Rectifier diode Reverse Voltage50V-1000v 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℃ Unless otherwise specified)

Time Minches	CVMPOL	US2							
Type Number	SYMBOL	AF	BF	DF	GF	JF	KF	MF	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	IO _(AV)	2.0				Α			
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	50.0							Α
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	II OIVI	100.0			Α				
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	10.4			A ² S				
Maximum Forward Voltage at 2.0A DC	V_{FM}		1.0		1.3		1.7		V
Maximum Reverse Current TA = 25℃	ID.	5.0							
at Rated DC Blocking Voltage TA = 125℃	- IR	100.0		uA					
Maximum reverse recovery time	Trr	50.0 75.0			ns				
Typical Thermal Resistance Between junction and	R_{QJa}	65.0			°C/W				
Operating Junction Temperature Range	T _J	—55to+150			$^{\circ}$				
Storage Temperature Range	T _{STG}	55to+150			${\mathbb C}$				

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

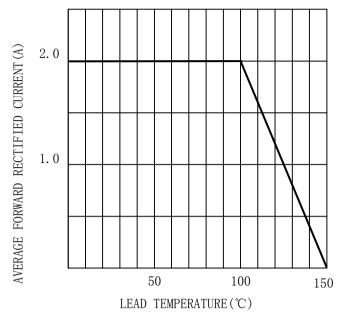


FIG. 2TYPICAL FORWARD CHARACTERISTICS

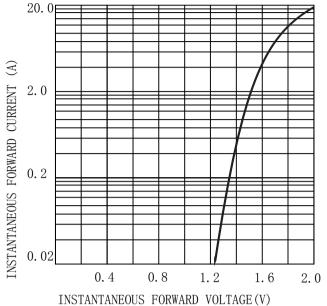


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

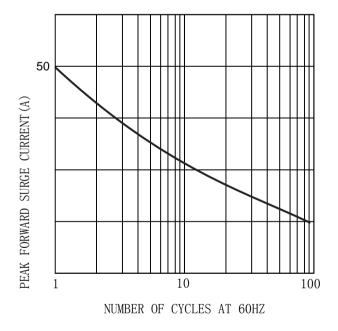
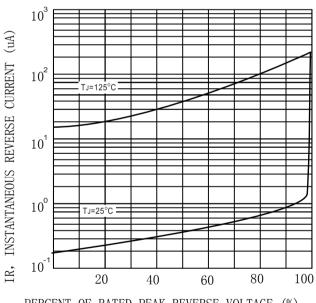


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



= Logo

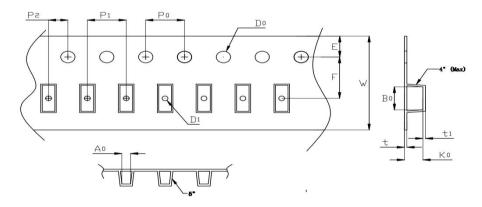
**** = Date Code Marking

US2* = Marking Code

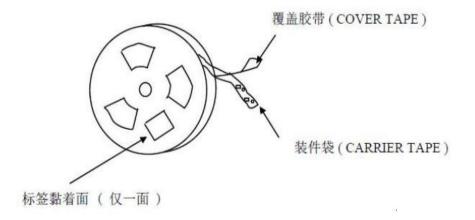
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



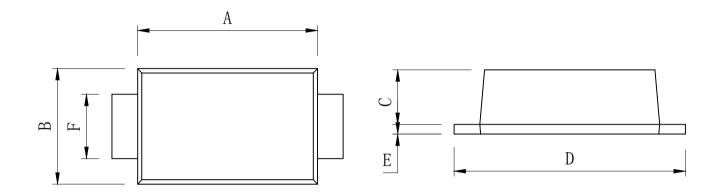
Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
SMAF	Anti-static	2.83± 0.10	4.9± 0.10	1.45± 0.05	4.00± 0.10	12.0± 0.10	0.23± 0.05	



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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