

US1A THRU US1M

Ultrafast recovery Rectifier diode Reverse Voltage50V-1000v Forward current-1A

Features

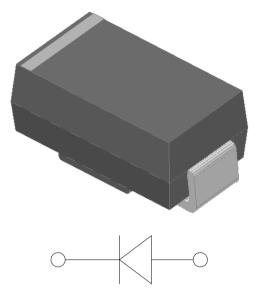
Glass passivated chip High surge current capability Ldeal for surface mounted applications Low power loss, high efficiency Plastic Case Material has UL Flammability

Mechanical Data

Package: SMA 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)

Turne Nurschern	SYMBOL	US1							
Type Number		А	В	D	G	J	К	М	Umit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}\!\!\mathbb{C}$	IO _(AV)	1.0				А			
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	30.0			A				
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	60.0					А			
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	3.7				A ² S			
Maximum Forward Voltage at 1.0A DC	V _{FM}	1.0 1.3 1.7			V				
Maximum Reverse Current TA = 25° C	IR	5.0			– uA				
at Rated DC Blocking Voltage TA = 100 $^\circ\!$		100.0							
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	TJ	55to+150				°C			
Storage Temperature Range	T _{STG}	—55to+150						°C	





四川旭茂微科技有限公司

Sichuan Xu Mao Micro Technology Co., Ltd

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6b0-1000V

μ

2.0

100

80

1.6

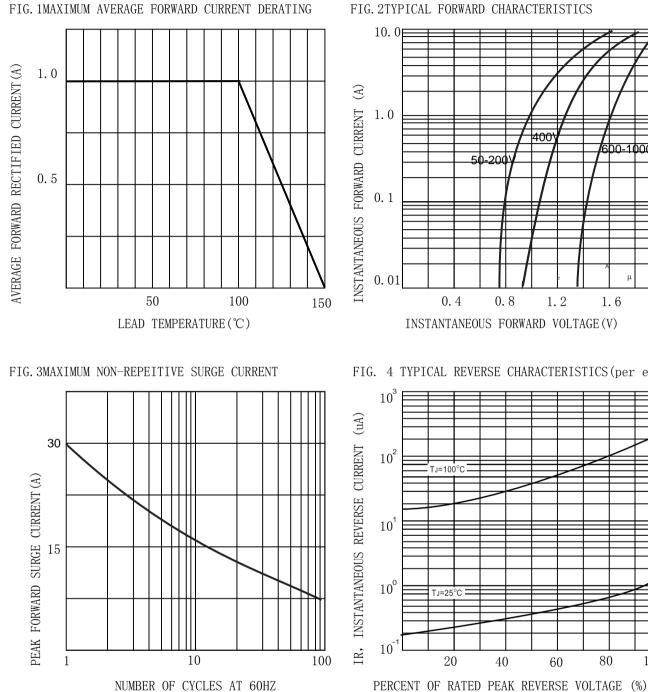


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



MARKING INFORMATION

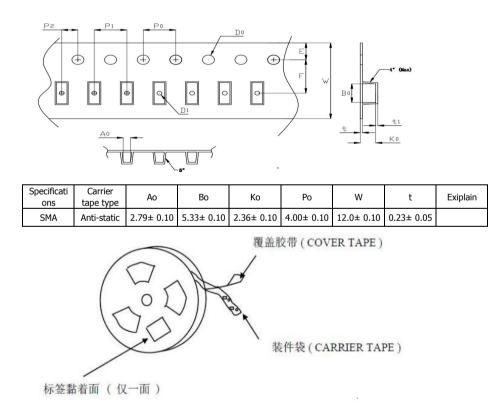


Logo
**** = Date Code Marking
US1* = Marking Code

Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



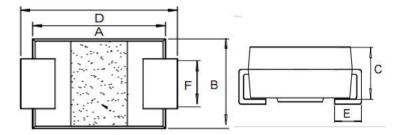
DEVICE Tape TYPE width		11"Reel		11"Reel			
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMA	12mm	5000	20	100000	5000	18	90000



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Outline Dimensions

SMA



SMA						
DIM	INC	HES	MM			
	MIN	MAX	MIN	MAX		
А	0.16	0.18	4.05	4.65		
В	0.09	0.11	2.4	2.8		
С	0.07	0.09	1.8	2.3		
D	0.18	0.21	4.67	5.27		
Е	0.04	0.06	1	1.4		
F	0.05	0.06	1.2	1.6		



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