

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: SMA

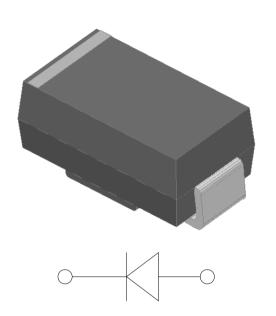
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant



Maximum Ratings (Ta=25°C Unless otherwise specified)

Tuno Number	SYMBOL	ES1					
Type Number		Α	В	D	G	J	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 at TL = 100 $^{\circ}$	IO _(AV)	1.0				Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	30.0					А
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	60.0				Α		
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	3.7			A^2S		
Maximum Forward Voltage at 1.0A DC			0.95		1.3	1.7	V
Maximum Reverse Current TA = 25℃		5.0					uA
at Rated DC Blocking Voltage TA = 100 ℃		100.0					
Maximum reverse recovery time			35.0				ns
Typical Thermal Resistance Between junction and			65.0				°C/W
Operating Junction Temperature Range			—55to+150				$^{\circ}$
Storage Temperature Range	T _{STG}		_	-55to+150			$^{\circ}$

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

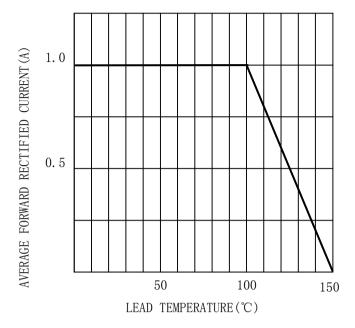


FIG. 2TYPICAL FORWARD CHARACTERISTICS

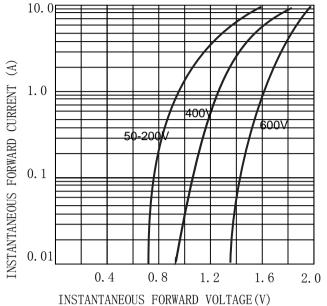


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

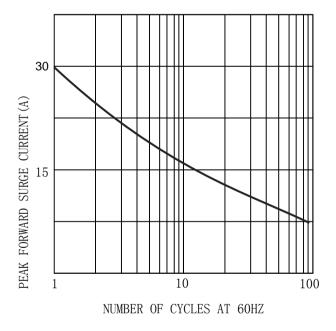
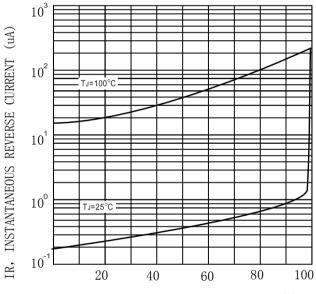


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



= Logo

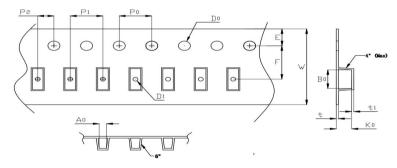
**** = Date Code Marking

ES1* = Marking Code

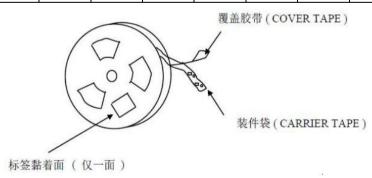
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



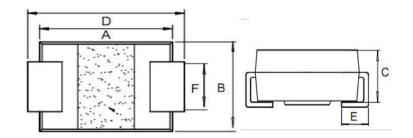
Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
SMA	Anti-static	2.79± 0.10	5.33± 0.10	2.36± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVIC	Tape		11"Reel		11"Reel			
TYPE	width	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	

Outline Dimensions

SMA



SMA							
DIM	INC	HES	MM				
	MIN	MAX	MIN	MAX			
A	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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