Express recovery diode Reverse Voltage50V-600v Forward current-3A

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: SMB

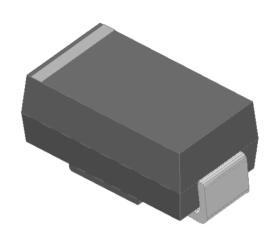
Terminals:Tin Plated leads, solderable per

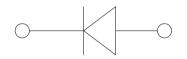
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise specified)

Tuno Number	SYMBOL		ES3				
Type Number		Α	В	D	G	J	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage		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)	3.0			Α		
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated IFSM				А			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	II GIVI	160.0		Α			
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	26.6			A ² S		
Maximum Forward Voltage at 3.0A DC	V _{FM}		0.95		1.3	1.7	V
Maximum Reverse Current TA = 25 ℃	IR	5.0		uA			
at Rated DC Blocking Voltage TA = 100 ℃	IK	100.0					
Maximum reverse recovery time	Trr	35.0			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			$^{\circ}$ C		

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

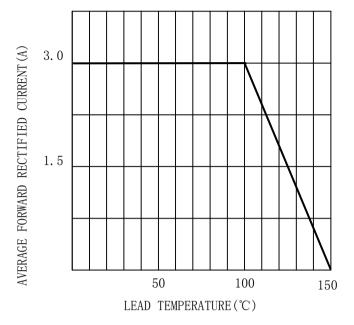


FIG. 2TYPICAL FORWARD CHARACTERISTICS

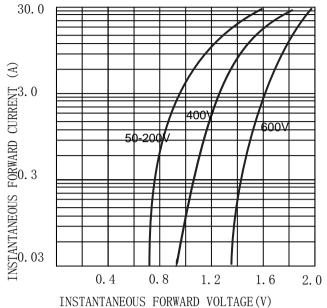


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

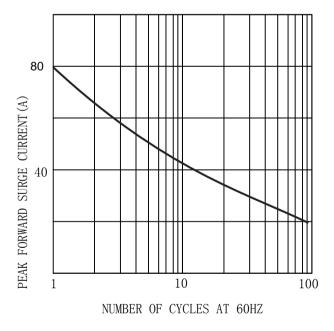
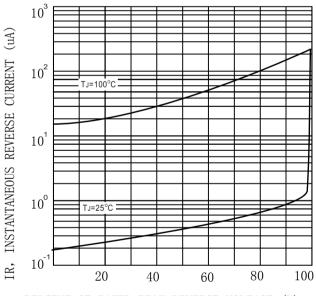


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



🤝 = Logo

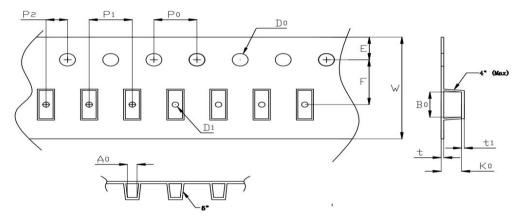
**** = Date Code Marking

ES3* = Marking Code

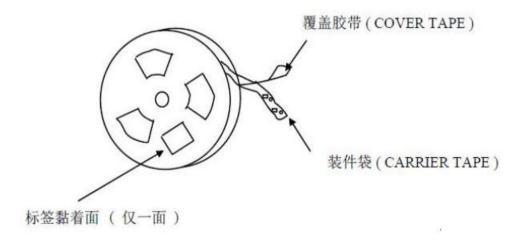
Print according to customer request

PACKING REQUIRMENTS

· Carrier tape packing



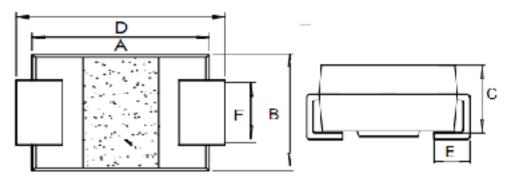
	Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
Ī	SMB	Anti-static	3.8± 0.10	5.4± 0.10	2.45± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVICE	Tape width	13"Reel				
TYPE		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)		
SMB	12mm	3000	20	60000		

Outline Dimensions

SMB



		SMB			
DIM	INC	HES	MM		
	MIN	MAX	MIN	MAX	
A	0. 16	0.19	4	4.8	
В	0. 13	0. 15	3.3	3.9	
С	0.08	0.10	2	2.5	
D	0. 18	0.22	4.5	5. 5	
Е	0.03	0.06	0.7	1.5	
F	0.06	0.10	1.5	2. 5	



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