

Express recovery diode Reverse Voltage50V-600v 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: SMB

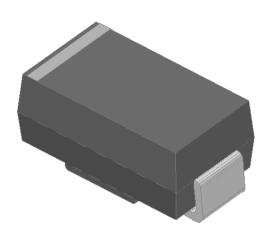
Terminals:Tin Plated leads, solderable per

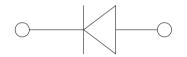
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise specified)

T a Nab an	SYMBOL -	ES2					
Type Number		AB	BB	DB	GB	JB	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)			2.0			Α
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM _	50.0			А		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	II OW	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}	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° C	IK	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	T _J	—55to+150			$^{\circ}$		
Storage Temperature Range	T _{STG}	—55to+150			$^{\circ}$ C		

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

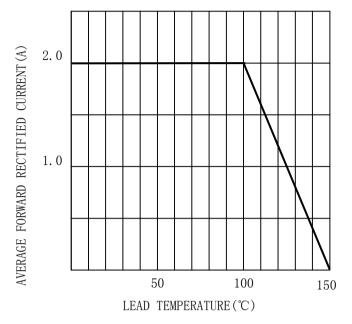


FIG. 2TYPICAL FORWARD CHARACTERISTICS

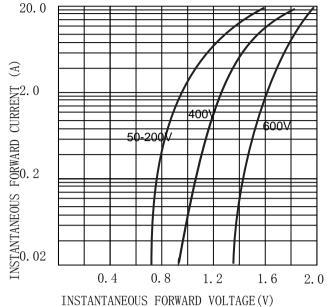


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

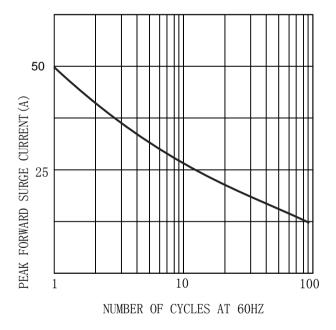
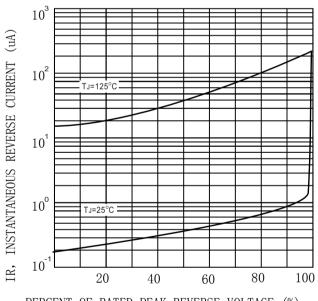


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION



Signal = Logo

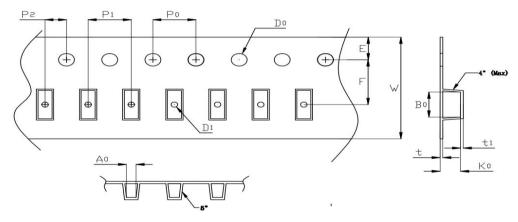
**** = Date Code Marking

ES2* = Marking Code

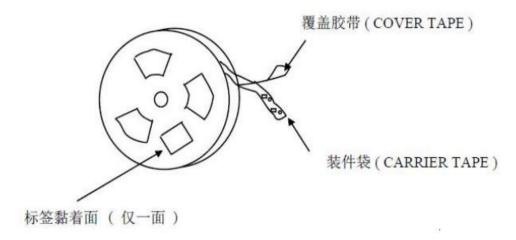
Print according to customer request

PACKING REQUIRMENTS

· Carrier tape packing



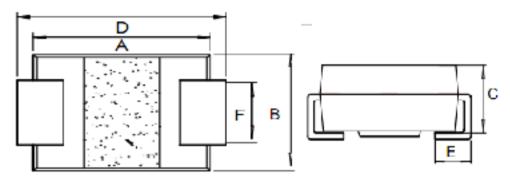
	Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
Ī	SMB	Anti-static	3.8± 0.10	5.4± 0.10	2.45± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	



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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