

Express recovery diode Reverse Voltage50V-600v Forward current-5A

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

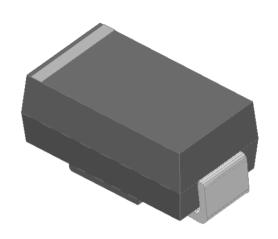
Terminals:Tin Plated leads, solderable per

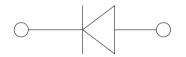
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise specified)

maximum ratings (ra 25 5 cmoss strict moss sp				
Type Number	SYMBOL	ES5GB	Umit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V	
Maximum RMS Voltage	V _{RMS}	280	V	
Maximum DC Blocking Voltage	V _{DC}	400	V	
Maximum Average Forward Rectified Current	IO _(AV)	5.0	А	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	120.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	II OIVI	240.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	59.8	A ² S	
Maximum Forward Voltage at 5.0A DC	V _{FM}	1.3	V	
Maximum Reverse Current TA = 25℃	IR -	5.0		
at Rated DC Blocking Voltage TA = 125℃	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	$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

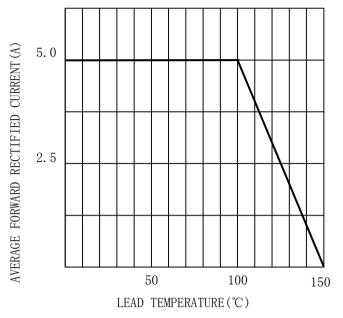


FIG. 2TYPICAL FORWARD CHARACTERISTICS

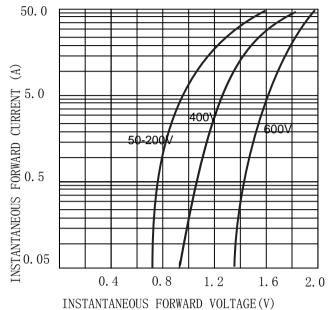


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

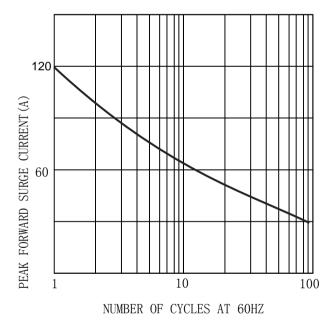
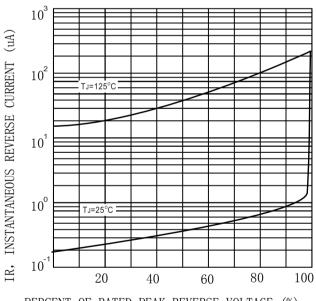


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION



🤝 = Logo

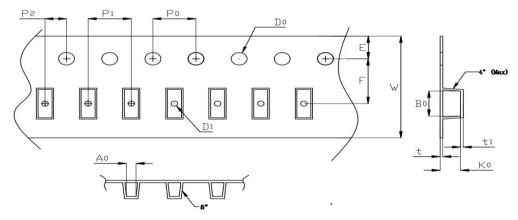
**** = Date Code Marking

ES5* = Marking Code

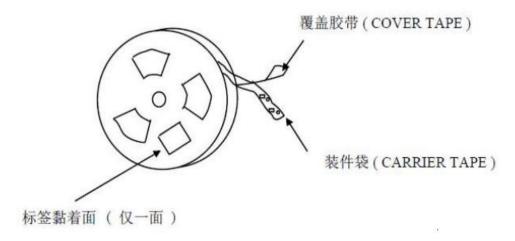
Print according to customer request

PACKING REQUIRMENTS

· Carrier tape packing



Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
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	

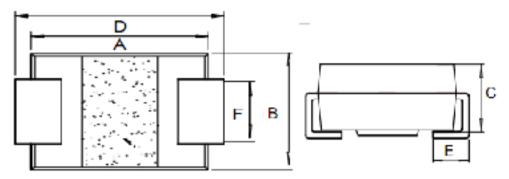


DEVICE	Tape	13"Reel			
TYPE	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
SMB	12mm	3000	20	60000	



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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