Ultrafast recovery Rectifier diode Reverse Voltage50V-1000v 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

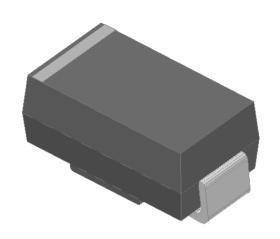
Terminals:Tin Plated leads, solderable per

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)

Time Number	CVMDOL	US2							
Type Number	SYMBOL	Α	В	D	G	J	K	М	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current IO _(AV) 2.0		2.0				Α			
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	50.0					Α		
ward Surge Current (Non-repetitive) ms, square wave, 1 cycle, Tj=25℃			100.0			Α			
Current squared time @1ms≤t8.3≤ms Tj=25℃, Rating of per diode	l ² t	10.4 A			A^2S				
Maximum Forward Voltage at2.0A DC	V_{FM}		1.0		1.3		1.7		٧
Maximum Reverse Current TA = 25 ℃	IR I	5.0		uA					
at Rated DC Blocking Voltage TA = 125℃	IK	100.0		u.					
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	T _J	—55to+150			$^{\circ}$				
Storage Temperature Range	T _{STG}		—55to+150				${\mathbb C}$		

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

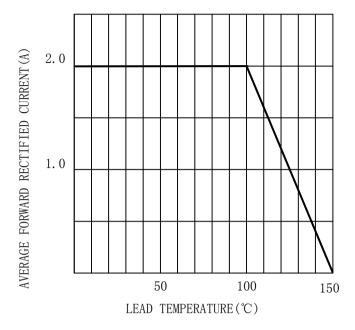


FIG. 2TYPICAL FORWARD CHARACTERISTICS

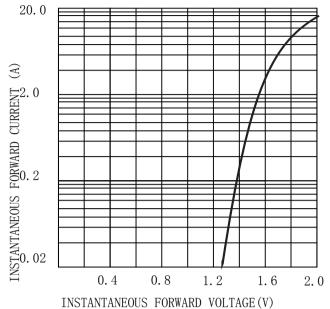


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

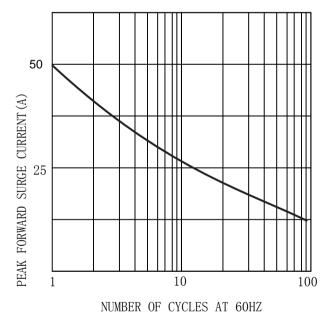
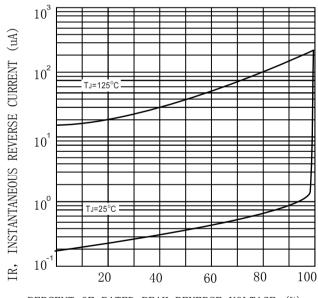


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



Signal = Logo

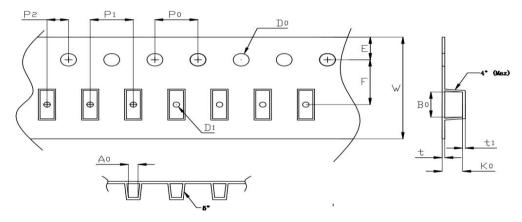
**** = Date Code Marking

US2* = Marking Code

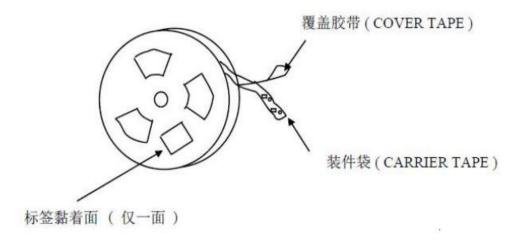
Print according to customer request

PACKING REQUIRMENTS

· Carrier tape packing



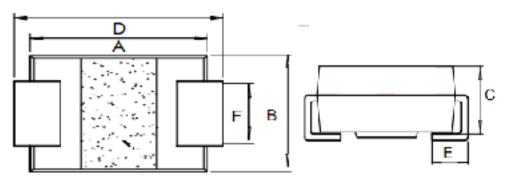
	Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
Ī	SMB	Anti-static	3.8± 0.10	5.4± 0.10	2.45± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	



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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