

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: SMC

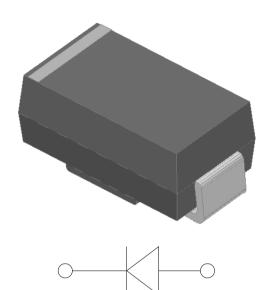
Terminals:Tin Plated leads, solderable per

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 Nimehar	SYMBOL	ES3A THRU ES3J					
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	IO _(AV)			3.0			А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	80.0 160.0			А		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	ii oivi				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 = 125℃	IIX	100.0					
Maximum reverse recovery time	Trr			35.0			ns
Typical Thermal Resistance Between junction and	R_{QJa}	48.0				.C\M	
Operating Junction Temperature Range	TJ	—55to+150			${\mathbb C}$		
Storage Temperature Range	T _{STG}	—55to+150				$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

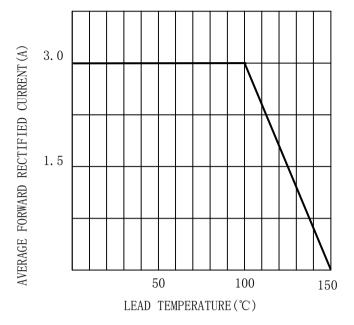


FIG. 2TYPICAL FORWARD CHARACTERISTICS

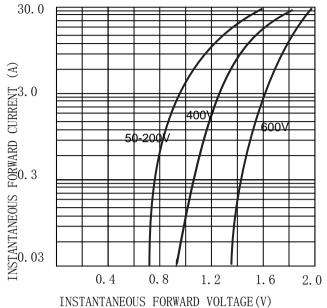


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

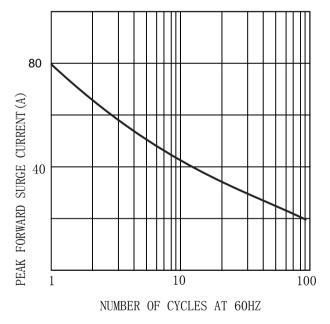
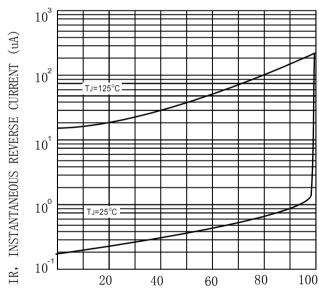


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



🤝 = Logo

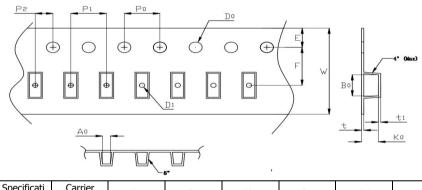
**** = Date Code Marking

ES** = Marking Code

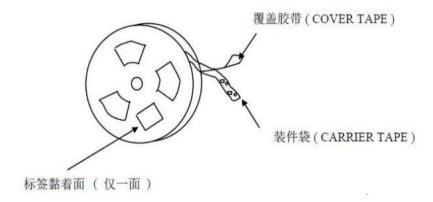
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing

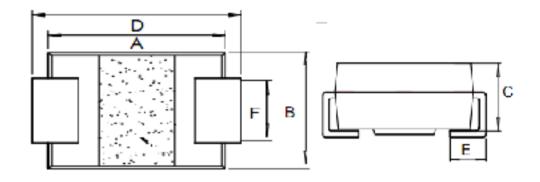


Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
SMC	Anti-static	6.05±0.1	8.31±0.1	2.54±0.1	3.98±0.05	15.95±0.05	0.23±0.02	



DEVICE	Tape width	'Reel			
TYPE		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
SMC	13.3	3000	T/R	3000	

Outline Dimensions



SMC						
DTM	INC	HES	MM			
DIM	MIN	MAX	MIN	MAX		
A	0.26	0. 28	6.6	7. 1		
В	0.22	0. 24	5. 5	6. 2		
С	0.08	0.10	2	2.6		
D	0.30	0.32	7. 7	8.2		
Е	/	0.06	/	1.5		
F	0.11	0. 13	2.9	3. 2		



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