

Express recovery diode Reverse Voltage50V-600v Forward current-10A

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

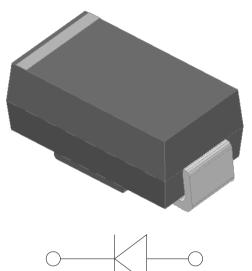
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25°C Unless otherwise specified)

Twaxiinum radings (ra-25 C Offices otherwise sp	SYMBOL	ES10A THRU ES10J					
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)	10.0					А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM _	180.0				А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	iii Givi	360.0					Α
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	134.5			A ² S		
Maximum Forward Voltage at 7.5A DC	V_{FM}		0.95		1.3	1.7	V
Maximum Reverse Current TA = 25℃	- IR	5.0 100.0				uA	
at Rated DC Blocking Voltage TA = 125℃	IIX				uA		
Maximum reverse recovery time Trr 35.0					ns		
Typical Thermal Resistance Between junction and	R_{QJa}	48.0				°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

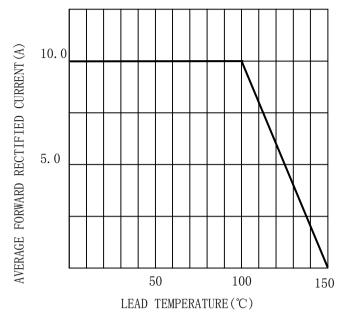


FIG. 2TYPICAL FORWARD CHARACTERISTICS

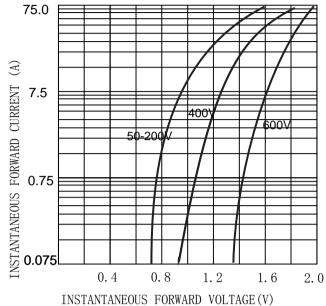


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

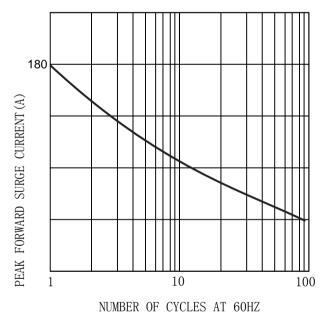
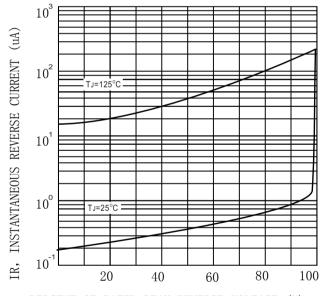


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION



🤝 = Logo

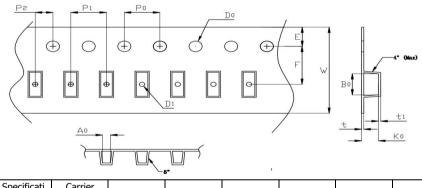
**** = Date Code Marking

ES** = Marking Code

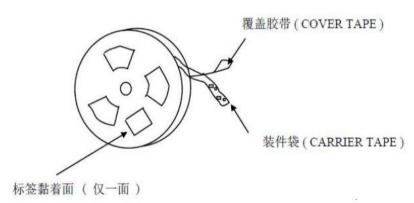
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing

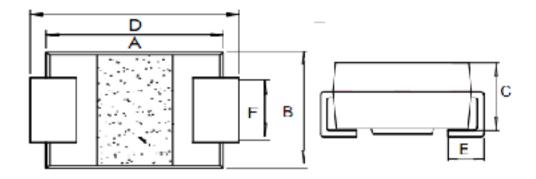


Specificati ons	Carrier tape type	Ao	Во	Ko	Ро	W	t	Exiplain
SMC	Anti-static	6.05±0.1	8.31±0.1	2.54±0.1	3.98±0.05	15.95±0.05	0.23±0.02	



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

Outline Dimensions



		SMC			
DIM	INC HES		MM		
	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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