

### 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

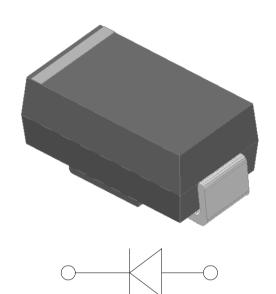
Terminals:Tin Plated leads, solderable per

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)

Tuno Number	CVMDOL	ES3A THRU ES3J					
Type Number	SYMBOL	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 <sub>DC</sub>	50	100	200	400	600	V
Maximum Average Forward Rectified Current	IO <sub>(AV)</sub>			3.0			Α
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	80.0			А		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	II OW	160.0			А		
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	26.6			A <sup>2</sup> 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℃	IK	100.0		uA			
Maximum reverse recovery time	Trr			35.0			ns
Typical Thermal Resistance Between junction and	$R_{QJa}$			48.0			.C\M
Operating Junction Temperature Range	T <sub>J</sub>	—55to+150			$^{\circ}$		
Storage Temperature Range	T <sub>STG</sub>	—55to+150			$^{\circ}$		

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

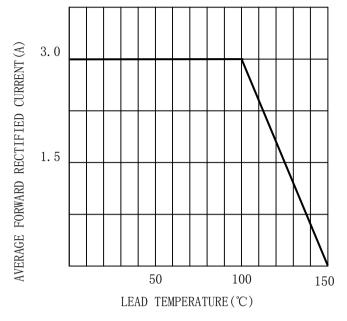


FIG. 2TYPICAL FORWARD CHARACTERISTICS

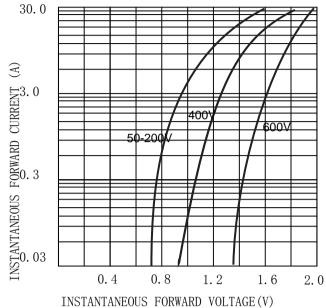


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

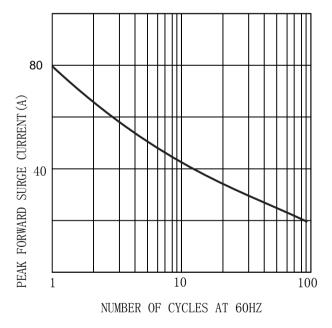
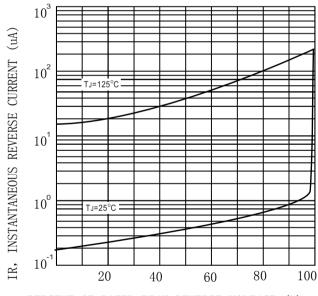


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

### **MARKING INFORMATION**



🤝 = Logo

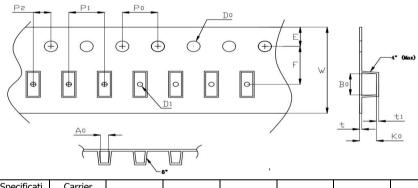
\*\*\*\* = Date Code Marking

ES\*\* = Marking Code

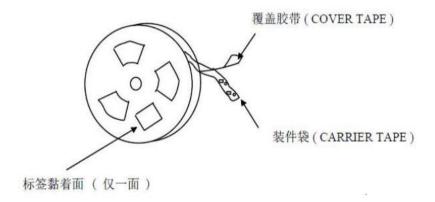
Print according to customer request

### **PACKING REQUIRMENTS**

Carrier tape packing

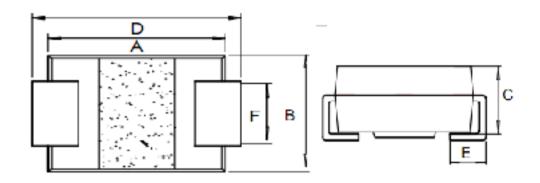


Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
SMC	Anti-static	6.05±0.1	8.31±0.1	2.54±0.1	3.98±0.05	15.95±0.05	0.23±0.02	



DEVICE TYPE	Tape width	'Reel				
		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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