MSKSEMI 美森科







TVS



TSS



MOV



GDT



PIFF

ES3A THRU ES3G

Product specification





Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Super fast recovery time for high speed switching

MECHANICAL DATA

Case: Molded plastic

• Epoxy: UL 94V-0 rate flame retardant

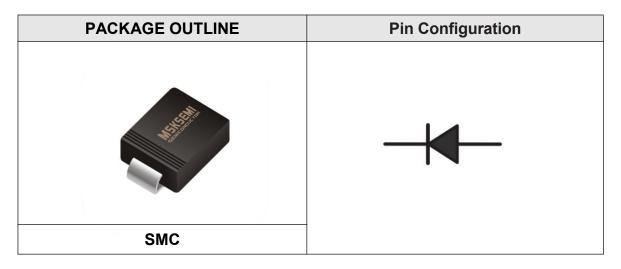
Metallurgically bonded construction

• Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.21 grams

Reference News



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

P/N(MARK)	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	300	400	V
Maximum RMS Voltage	35	70	105	140	210	280	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current							
at T∟=100°C	3.0				Α		
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	100				А		
Maximum Instantaneous Forward Voltage at 3.0A	0.95 1.25				V		
Maximum DC Reverse Ta=25℃			10				μA
Current at Rated DC Blocking Voltage Ta=100℃			500				μΑ
Maximum Reverse Recovery Time (Note 1)	35				nS		
Typical Junction Capacitance (Note 2)	45				pF		
Operating and Storage Temperature Range Тл , Тsтс	-65——+150				$^{\circ}$		

NOTES:

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



RATING AND CHARACTERISTIC CURVES (ES3A THRU ES3G)

FIG.1-TYPICAL FORWARD

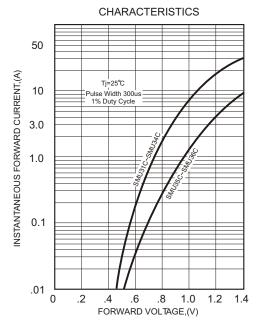
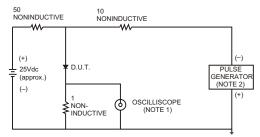


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

2. Rise Time= 10ns max., Source Impedance= 50 ohms

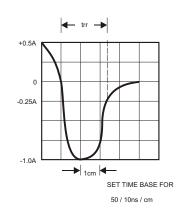


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

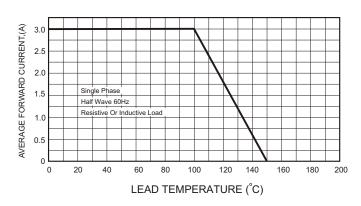


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

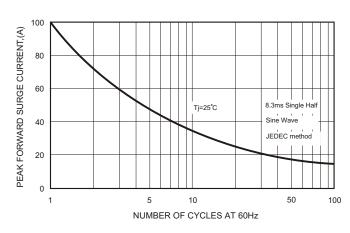
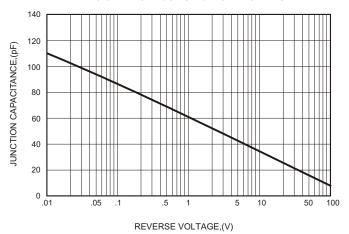
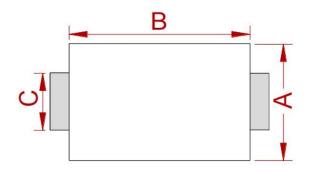


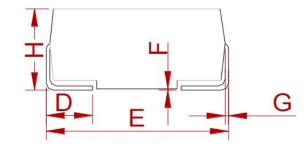
FIG.5-TYPICAL JUNCTION CAPACITANCE

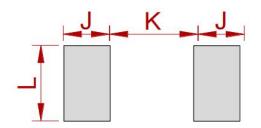




PACKAGE MECHANICAL DATA







DO-214AB (SMC)

	Dimensions						
Ref.	Millimeters		Inches				
	Min.	Max.	Min.	Max.			
Α	5.75	6.25	0.226	0.246			
В	6.90	7.40	0.272	0.291			
С	2.75	3.25	0.108	0.128			
D	0.95	1.52	0.037	0.060			
E	7.70	8.20	0.303	0.323			
F	0.051	0.203	0.002	0.008			
G	0.15	0.31	0.006	0.012			
Н	2.15	2.62	0.085	0.103			
J	2.40		0.094				
K		4.20		0.165			
L	3.30		0.130				

REEL SPECIFICATION

P/N	PKG	QTY
ES3A THRU ES3G	SMC	3000



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