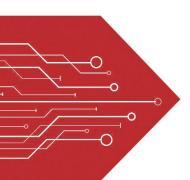
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

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Semiconductor

Compiance

VOLTAGE RANGE 50 to 600 Volts CURRENT

3.0 Amperes



SMB

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

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: 0.093 grams

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%.

D/N/MADIZ)								
P/N(MARK)	ES3AB	ES3BB	ES3CB	ES3DB	ES3EB	ES3GB	ES3JB	UNITS
Maximum Recurrent Peak Reverse Voltage		100	150	200	300	400	600	V
Maximum RMS Voltage		70	105	140	210	280	420	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current				•				
.375"(9.5mm) Lead Length at Ta=55°C		3.0						Α
Peak Forward Surge Current, 8.3 ms single half sine-wa	ive							
superimposed on rated load (JEDEC method)				80				Α
Maximum Instantaneous Forward Voltage at 3.0A		1.0 1.4 1.7			1.7	V		
Maximum DC Reverse Current Ta=25°C				5.0				uA
at Rated DC Blocking Voltage Ta=100°C				50				uA
Maximum Reverse Recovery Time (Note 1)				35				nS
Typical Junction Capacitance (Note 2)		60					pF	
Operating and Storage Temperature Range TJ, Tstg		-65—+150				°C		

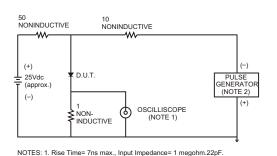
NOTES:

- 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 (ES3AB THRU ES3JB)

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

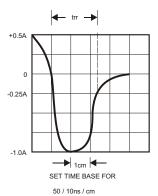


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

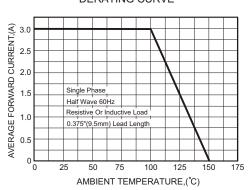
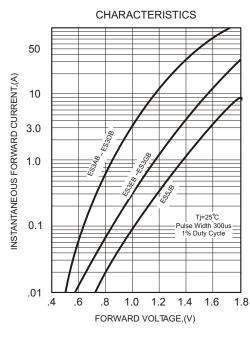


FIG.3-TYPICAL FORWARD



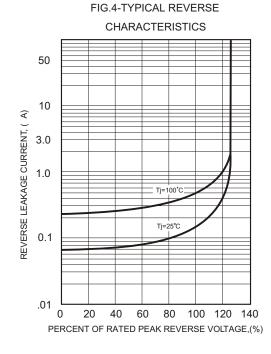


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

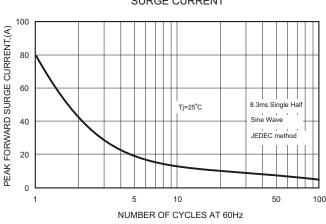
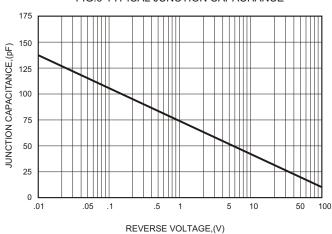


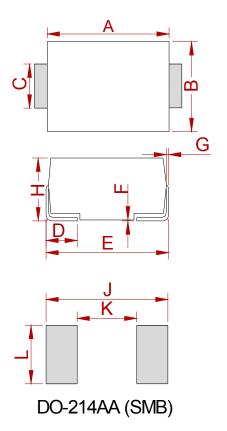
FIG.6-TYPICAL JUNCTION CAPACITANCE







PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
Α	4.25	4.75	0.167	0.187		
В	3.30	3.94	0.130	0.155		
С	1.85	2.21	0.073	0.087		
D	0.76	1.52	0.030	0.060		
Е	5.08	5.59	0.200	0.220		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	2.11	2.44	0.083	0.096		
J	6.80		0.270			
K		2.60		0.100		
L	2.40		0.090			

REEL SPECIFICATION

P/N	PKG	QTY
ES3AB THRU ES3JB	SMB	3000



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