MSKSEMI 美森科













FSD

TVS

35

GD'

PLED

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

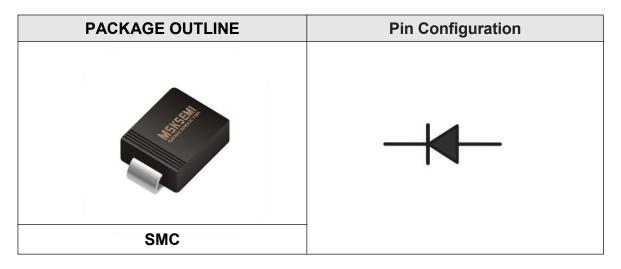
Metallurgically bonded construction

• 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				$^{\circ}$ 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 (ES3A THRU ES3G)

FIG.1-TYPICAL FORWARD

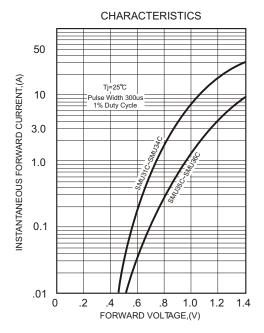
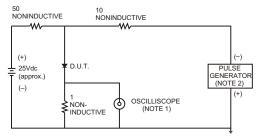


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

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

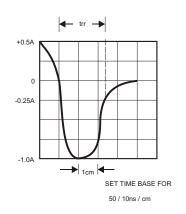


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

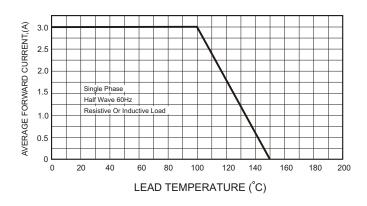


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

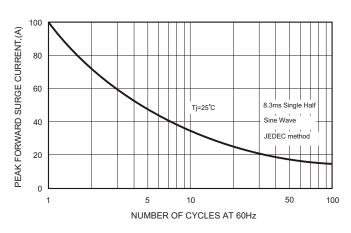
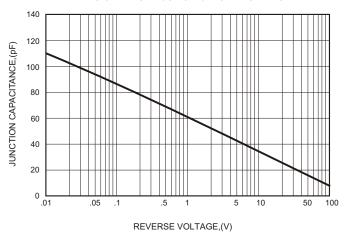
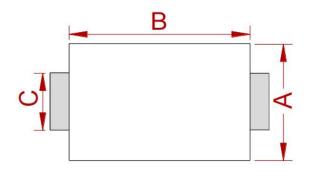


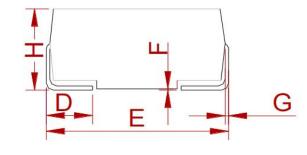
FIG.5-TYPICAL JUNCTION CAPACITANCE

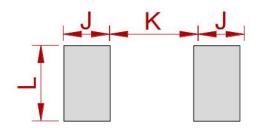




PACKAGE MECHANICAL DATA







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



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by MSKSEMI manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H 1N3611 NTE156A NTE574 NTE6244 1SS193,LF 1SS400CST2RA SDAA13

SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914BTR RFUH20TB3S D291S45T BAV300-TR BAW56DWQ
7-F BAW56M3T5G BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4454UR-1 LL4151-GS18 SMMSD4148T3G

BYW95B/A52A NSVDAN222T1G CDSZC01100-HF LL4150-M-08 1N4454-TR BAV70HDW-7 BAS28-7 JANTX1N6640 BAW56HDW
13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G 1SS388-TP RGP30D-E3/73 VS-8EWF02S-M3 BAV99TQ-13-F

BAV99HDW-13 MMDB30-E28X IDP20C65D2XKSA1 LS4148 IDV15E65D2 NSVM1MA152WAT1G