

ER3DA Green Products

ER3DA ULTRAFAST PLASTIC RECTIFIER

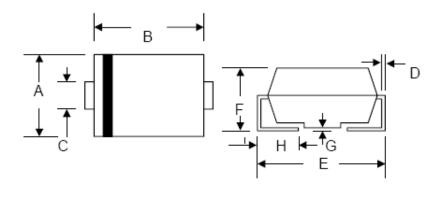
Features:

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 100 A Peak
- Low Power Loss
- Super Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- Green Products in Compliance with the ROHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data:

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity :Cathode Band or Cathode Notch
- Weight: 0.68 grams (approx.)
- Marking: Type Number

Mechanical Dimensions: In mm / Inches



SMA/DO-214AC						
Dim	Min	Мах	Min	Мах		
А	2.50	2.90	0.098	0.114		
в	4.00	4.60	0.157	0.181		
С	1.40	1.60	0.055	0.063		
D	0.152	0.305	0.006	0.012		
Е	4.80	5.28	0.189	0.208		
F	2.00	2.44	0.079	0.096		
G	0.051	0.203	0.002	0.008		
н	0.76	1.52	0.030	0.060		
	In mm		In inch			

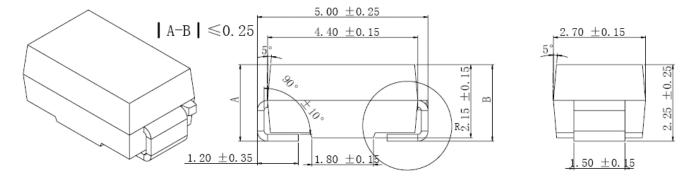
OPTION 1

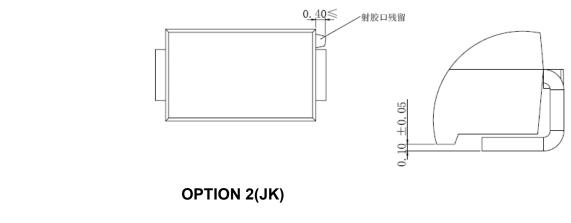
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FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •</sup>



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Technical Data Data Sheet N0134, Rev. A **Green Products**





SMA



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Marking Diagram:



Where XXXXX is YYWWL

ER	= Device Type
3	= Forward Current (3A)
D	= Reverse Voltage (200V)
А	= Package type
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
ER3DA	SMA (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	ER3DA	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	200	V
RMS Reverse Voltage	VR(RMS)	140	V
Average Rectified Output Current $@T_L = 75^{\circ}C$	lo	3.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	100	А
Forward Voltage @I _F = 3.0A	V _{FM}	0.95	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	5.0 500	μA
Reverse Recovery Time (Note 1)	trr	35	nS
Typical Junction Capacitance (Note 2)	Cj	45	pF
Typical Thermal Resistance (Note 3)	R∂JL	16	КW
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150	°C

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A,

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm² land area.



Technical Data

SANGDEST MICROELECTRONICS

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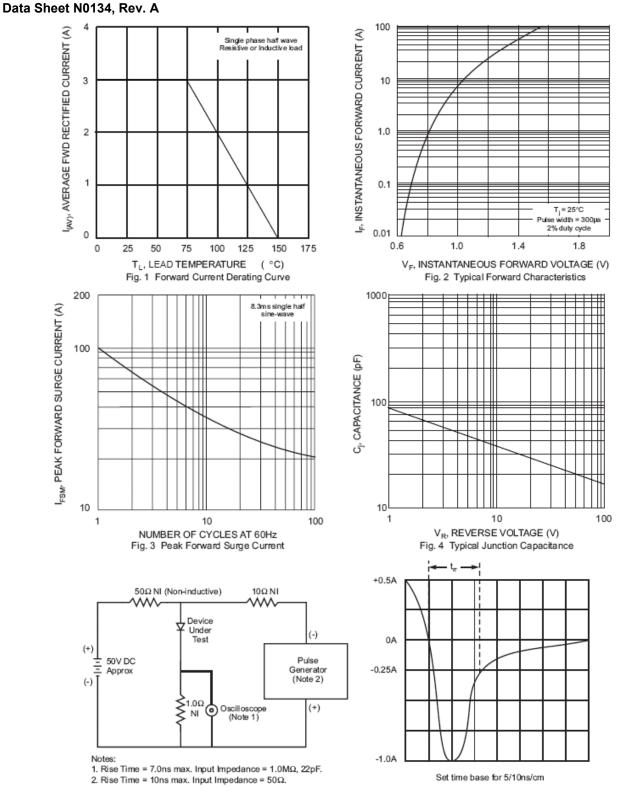


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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