SURFACE MOUNT SILICON DUAL, ISOLATED SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMFSH-3i consists of two electrically isolated silicon Schottky diodes packaged in an epoxy molded SOT-143 surface mount case. This device is designed fast switching applications requiring a low forward voltage drop.

MARKING CODE: C3I

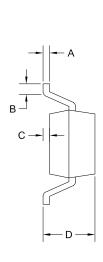
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	Ι _Ε	100	mA
Peak Repetitive Forward Current	I _{FRM}	200	mA
Peak Forward Surge Current, tp=10ms	I _{FSM}	750	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ.ΙΔ	357	°C/W

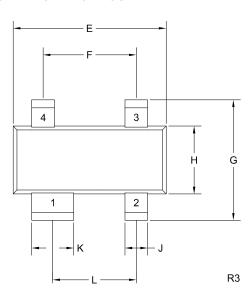
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted) SYMBOL **TEST CONDITIONS** UNITS TYP MAX V_R=25V 90 500 nΑ I_R μΑ $V_R = 25V, T_A = 100$ °C 25 100 I_R BV_R I_R=100μA 30 ٧ I_F=2.0mA 0.29 0.33 V_{F} V_{F} I_E=15mA 0.37 0.45 ٧ I_E=100mA V_{F} 0.51 1.00 V V_R =1.0 V_r , f=1.0 V_r C_{J} 7.0 pF $I_F = I_R = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_L = 100 \Omega$ 5.0 ns trr

SURFACE MOUNT SILICON **DUAL, ISOLATED SCHOTTKY DIODE**

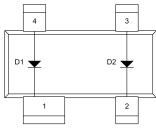


SOT-143 CASE - MECHANICAL OUTLINE





PIN CONIGURATION



LEAD CODE:

- 1) Cathode D1 2) Cathode D2
- 3) Anode D2
- 4) Anode D1

MARKING CODE: C3I

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.003	0.008	0.08	0.20
В	0.006	-	0.15	-
С	0.000	0.005	0.01	0.13
D	0.035	0.045	0.89	1.14
Е	0.110	0.120	2.79	3.04
F	0.075		1.90	
G	0.083	0.102	2.10	2.60
Н	0.047	0.055	1.19	1.40
J	0.012	0.020	0.30	0.50
K	0.030	0.037	0.76	0.93
L	0.067		1.	70
SOT-143 (REV: R3)				

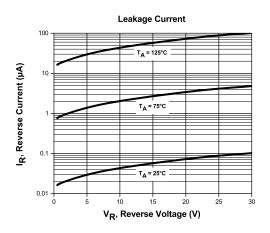
SOT-143 (REV: R3)

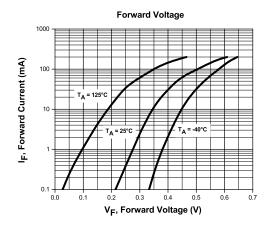
R7 (19-September 2018)

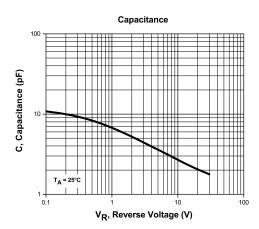


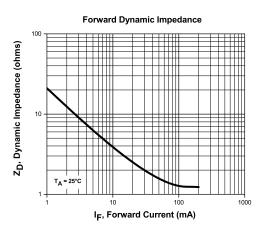


TYPICAL ELECTRICAL CHARACTERISTICS





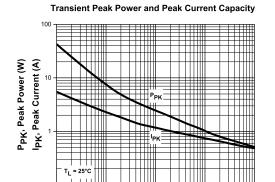




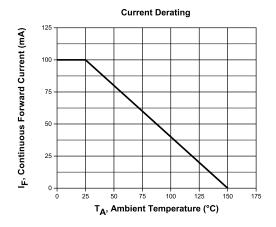


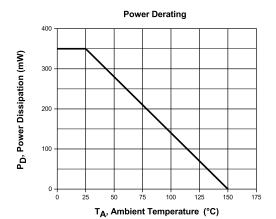


TYPICAL ELECTRICAL CHARACTERISTICS



Transient Pulse Width (ms)





OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- · Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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Product End of Life Notification

PDN ID:	PDN01220 Rev:001
Notification Date:	2/09/23
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: All devices manufactured in the SOT-143 package are discontinued and now classified as End of Life (EOL). Rev:001 of PDN#01220, Feb 9, 2023, issued to remove BAW100G BK and BAW100G TR to address market demand; BAW100G BK and BAW100G TR are now active devices.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
BAS28 BK	N/A
BAS28 TR	N/A
BAW100 BK	N/A
BAW100 TR	N/A
CMFSH-3I BK	N/A
CMFSH-3I TR	N/A
BAW100G BK	Item BAW100G BK removed from PDN; device now active.
BAW100G TR	Item BAW100G TR removed from PDN; device now active.

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002