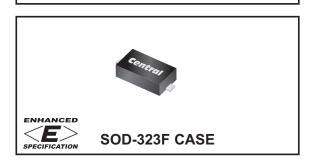
ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH-4EF is an enhanced version of the CMDSH-3F silicon Schottky diode in an SOD-323F surface mount package.

ENHANCED SPECIFICATIONS:

- ♦I_O from 100 mA MAX to 200 mA MAX
- ♦BV_R from 30V MIN to 40V MIN
- $ightharpoonup V_F$ from 1.0 V MAX to 0.8 V MAX

MARKING CODE: SEF

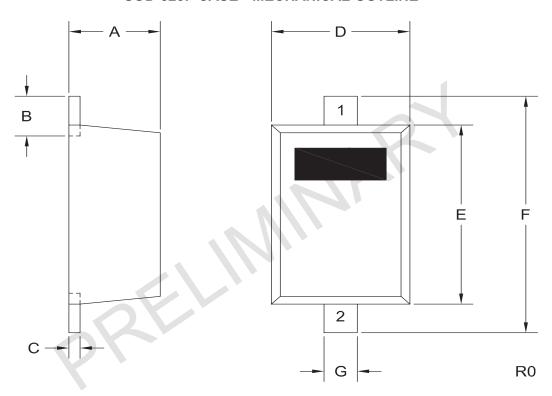
MAXIMUM	RATINGS: (T _A =25°C)	SYMBOL			UNITS
◆ Peak Repetitive Reverse Voltage◆ Average Forward Current		V_{RRM}	4	0	V
		IO	200		mA
Peak Repe	titive Forward Current	I _{FRM}	3	50	mA
Peak Forwa	ard Surge Current, tp=10ms	I _{FSM}	7:	50	mA
Power Diss	sipation	P _D	2:	25	mW
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150		°C
Thermal Re	esistance	Θ_{JA}	556		°C/W
ELECTRIC	AL CHARACTERISTICS: (T _A =25°C u	nless otherwise	noted)		
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
^I R	V _R =25V		90	500	nA
I_{R}	V _R =25V, T _A =100°C		25	100	μΑ
♦ BV _R	I _R =100µA	40	50		V
V_{F}	I _F =2.0mA		0.29	0.33	V
♦ v _F	I _F =15mA		0.37	0.42	V
◆ v _F	I _F =100mA		0.51	0.80	V
•• ∨ _F	I _F =200mA		0.65	1.0	V
C_J	V_R =1.0 V , f=1.0 M Hz		7.0		pF
t _{rr}	$I_F = I_R = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100\Omega$!		5.0	ns

- ♦ Enhanced specification.
- ♦♦ Additional Enhanced specification.

ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE



SOD-323F CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

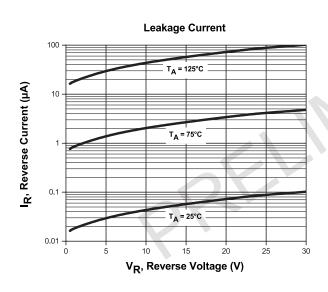
MARKING CODE: SEF

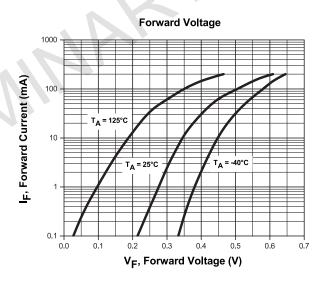
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.028	0.035	0.70	0.90			
В	0.012	-	0.30	-			
С	0.002	0.006	0.05	0.15			
D	0.045	0.053	1.15	1.35			
Е	0.069	0.077	1.75	1.95			
F	0.091	0.106	2.30	2.70			
G	0.010	0.014	0.25	0.35			
		SOD-323F (REV:R1)					

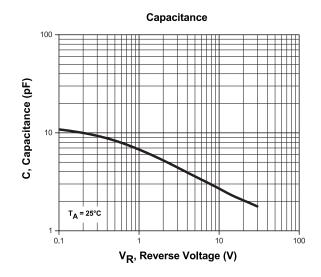
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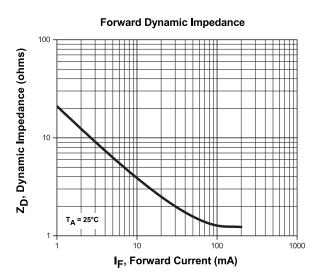


TYPICAL ELECTRICAL CHARACTERISTICS







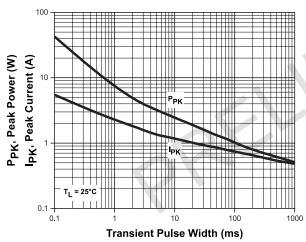


ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS





Current Derating 250 150 150 150 150 175 T_A, Ambient Temperature (°C)

Power Derating 300 250 250 150 150 100 25 50 75 100 125 150 175 T_A, Ambient Temperature (°C)

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 quick 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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