

SURFACE MOUNT SILICON SCHOTTKY DIODES



The following configurations are available:

CMPSH-3 CMPSH-3A CMPSH-3C CMPSH-3S	DUAL, COMMON CATHODE	MARKING (MARKING (MARKING (MARKING (CODE: DB	1 2	
MAXIMUM RA	TINGS: (T _A =25°C)	SYMBOL			UNITS
Peak Repetitive Reverse Voltage		V _{RRM}	3	0	V
Continuous Forward Current		١ _F	10	00	mA
Peak Repetitive Forward Current		I _{FRM}	35	50	mA
Peak Forward Surge Current, tp=10ms		IFSM	75	50	mA
Power Dissipation		PD	35	50	mW
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150		°C
Thermal Resistance		Θ_{JA}	357		°C/W
ELECTRICAL	CHARACTERISTICS PER DIODE: ((T _A =25°C unles	s otherwise i	noted)	
SYMBOL		MIN	TYP	MAX	UNITS
I _R	V _R =25V		90	500	nA
IR	V _R =25V, T _A =100°C		25	100	μA
BVR	Ι _R =100μΑ	30			V
V _F	I _F =2.0mA		0.29	0.33	V
V _F	I _F =15mA		0.37	0.45	V
V _F	I _F =100mA		0.51	1.00	V
CJ	V _R =0, f=1.0MHz			20	pF
t _{rr}	$I_F = I_R = 10 \text{mA}$, $I_{rr} = 1.0 \text{mA}$, $R_L = 100 \Omega$			5.0	ns



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3 series devices are silicon Schottky diodes designed for surface mount fast switching applications requiring a low forward voltage drop.

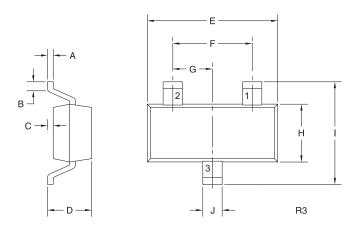
R8 (8-September 2016)



CMPSH-3 CMPSH-3A CMPSH-3C CMPSH-3S

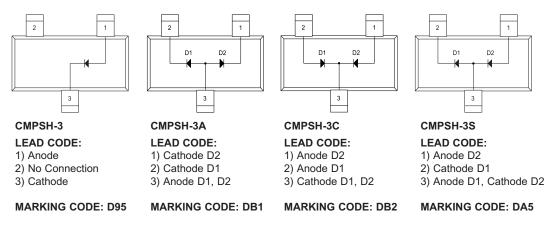
SURFACE MOUNT SILICON SCHOTTKY DIODES

SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	0.003	0.007	0.08	0.18				
В	0.006	-	0.15	-				
С	-	0.005	-	0.13				
D	0.035	0.043	0.89	1.09				
Е	0.110	0.120	2.80	3.05				
F	0.075		1.90					
G	0.037		0.95					
Н	0.047	0.055	1.19	1.40				
	0.083	0.098	2.10	2.49				
J	0.014	0.020	0.35	0.50				
SOT-23 (REV: R3)								

PIN CONFIGURATIONS



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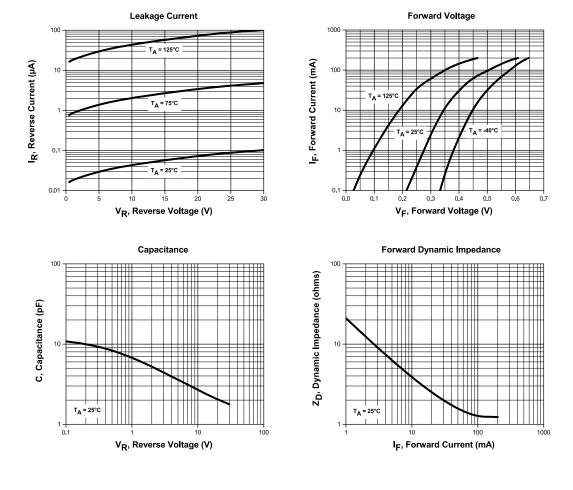
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CMPSH-3A CMPSH-3C CMPSH-3S REACE MOUNT SILIC

CMPSH-3

SURFACE MOUNT SILICON SCHOTTKY DIODES



TYPICAL ELECTRICAL CHARACTERISTICS

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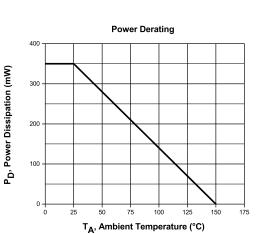
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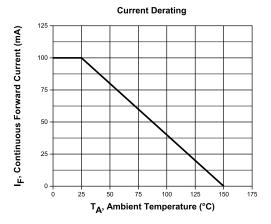


CMPSH-3A CMPSH-3C CMPSH-3S SURFACE MOUNT SILICON SCHOTTKY DIODES

CMPSH-3

Transient Peak Power and Peak Current Capacity 100 Р_{РК}, Peak Power (W) I_{PK}, Peak Current (A) 10 P_P = 25°C т_L 1111 0.1 -0.1 10 100 1000 Transient Pulse Width (ms)





TYPICAL ELECTRICAL CHARACTERISTICS

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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