SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH05-4 is a 40 volt Schottky diode packaged in a space saving SOT-563 surface mount case. This device has been designed for applications requiring a low forward voltage drop.

MARKING CODE: C54



SOT-563 CASE

MAXIMUM RATINGS: (TA=25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I _F	500	mA
Peak Repetitive Forward Current, tp≤1.0ms	^I FRM	3.5	Α
Peak Forward Surge Current, tp=8.0ms	^I FSM	10	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	500	°C/W

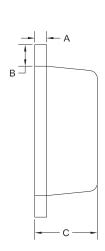
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

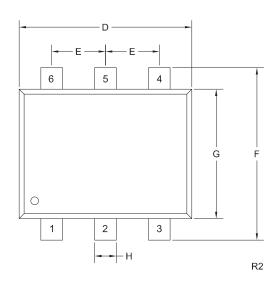
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =10V		20	μΑ
I_{R}	V _R =30V		100	μΑ
BV_R	I _R =500μA	40		V
V_{F}	I _F =100μA		0.13	V
V_{F}	I _F =1.0mA		0.21	V
V_{F}	I _F =10mA		0.27	V
V_{F}	I _F =100mA		0.35	V
V_{F}	I _F =500mA		0.47	V
CJ	V _R =1.0V, f=1.0MHz		50	pF

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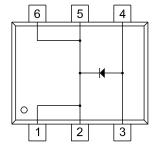


SOT-563 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.0027	0.007	0.07	0.18			
В	0.008		0.20				
С	0.017	0.024	0.45	0.60			
D	0.059	0.067	1.50	1.70			
E	0.020		0.50				
F	0.059	0.067	1.50	1.70			
G	0.043	0.051	1.10	1.30			
Н	0.006	0.012	0.15	0.30			
SOT-563 (REV: R2)							

LEAD CODE:

- 1) Cathode
- 2) Cathode
- 3) Anode
- 4) Anode
- 5) Cathode
- 6) Cathode

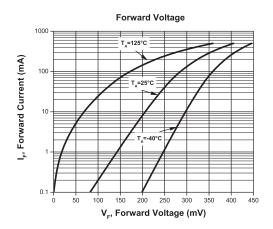
MARKING CODE: C54

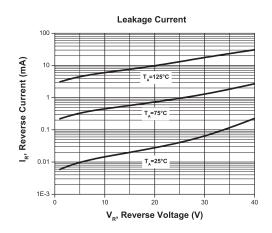
R5 (30-September 2015)

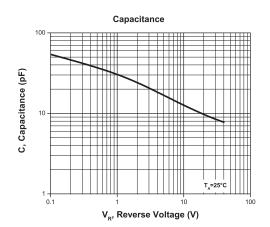
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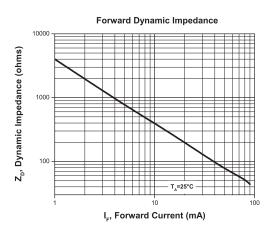


TYPICAL ELECTRICAL CHARACTERISTICS





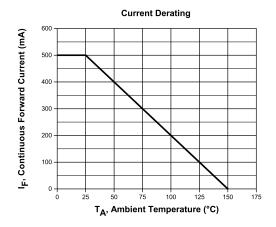


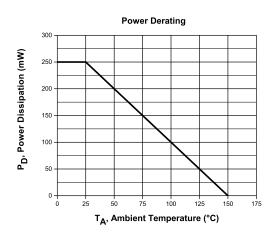






TYPICAL ELECTRICAL CHARACTERISTICS





OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

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- · Inventory bonding
- · Consolidated shipping options

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

DESIGNER SUPPORT/SERVICES

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- · 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

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