CZS5064

SURFACE MOUNT SILICON CONTROLLED RECTIFIER



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZS5064 type is an epoxy molded PNPN Silicon Controlled Rectifier manufactured in an epoxy molded surface mount package, designed for control systems and sensing circuit applications.

MARKING: FULL PART NUMBER



MAXIMUM	RATINGS : (T _A =25°C unless otherwise noted)	SYMBOL			UNITS
Peak Repe	titive Off-State Voltage	V_{DRM}		400	V
Peak Repe	titive Reverse Voltage	V_{RRM}		400	V
RMS On-S	tate Current	I _{T(RMS)}		8.0	Α
Average Or	n-State Current (T _C =67°C)	I _{T(AV)}		0.51	
Operating .	Junction Temperature	T _J ′	-40 to +125		°C
Storage Te	mperature	T _{stg}	-40 to +150		°C
Thermal Resistance		Θ_{JA}	150		°C/W
Thermal Resistance		Θ JC	25		°C/W
ELECTRIC	AL CHARACTERISTICS: (T _A =25°C unless oth	erwise noted)			
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{DRM}	V_D =400V, R_{GK} =1.0K Ω , T_C =125°C			50	μΑ
IRRM	VD=400V, RGK=1.0KΩ, TC=125°C			50	μA

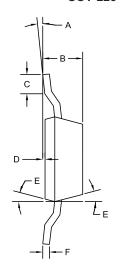
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{DRM}	V_D =400V, R_{GK} =1.0K Ω , T_C =125°C			50	μΑ
I _{RRM}	V_D =400V, R_{GK} =1.0K Ω , T_C =125°C			50	μΑ
V_{T}	I _T =1.2A			1.7	V
l _{GT}	V_D =7.0V, R_L =100 Ω , R_{GK} =1.0K Ω			200	μΑ
V_{GT}	V_D =7.0V, R_L =100 Ω , R_{GK} =1.0K Ω			8.0	V
V_{GD}	V_D =400V, R_L =100 Ω , T_C =125°C	0.1			V
lΗ	V_D =7.0, R_{GK} =1.0 $K\Omega$			5.0	mA
tON	V_D =400V, I_{GT} =1.0mA, I_F =1.0A,				
	R _{GK} =1KΩ, di/dt=6.0A/ μ s		2.8		μs

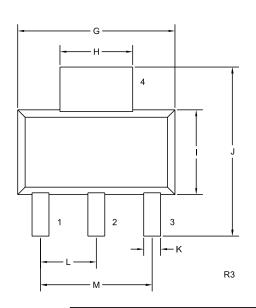
CZS5064





SOT-223 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode 3) Gate
- 4) Anode

MARKING: FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0°	10°	0°	10°			
В	0.059	0.071	1.50	1.80			
С	0.018		0.45	_			
D	0.000	0.004	0.00	0.10			
Е	15°		15°				
F	0.009	0.014	0.23	0.35			
G	0.248	0.264	6.30	6.70			
Н	0.114	0.122	2.90	3.10			
	0.130	0.146	3.30	3.70			
J	0.264	0.287	6.70	7.30			
K	0.024	0.033	0.60	0.85			
L	0.091		2.30				
М	0.181		4.60				

SOT-223 (REV: R3)

R4 (23-February 2010)

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

CONTACT US

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