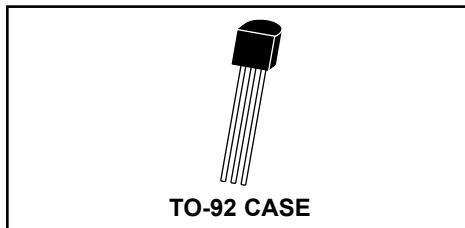


BRX44	BRX47
BRX45	BRX48
BRX46	BRX49
SILICON CONTROLLED RECTIFIER	
0.8 AMP, 30 THRU 400 VOLTS	



CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BRX44 series types are PNPN Silicon Controlled Rectifiers manufactured in a TO-92 case, designed for control systems and sensing circuit applications.

MARKING CODE: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

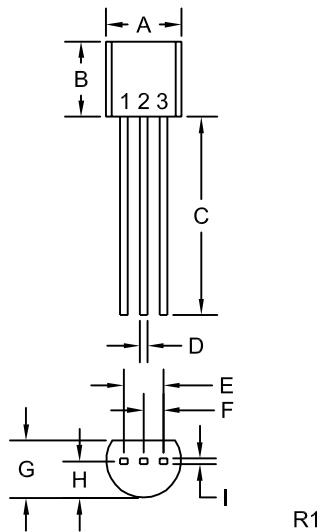
SYMBOL	BRX44	BRX45	BRX46	BRX47	BRX48	BRX49	UNITS
Peak Repetitive Off-State Voltage	V_{DRM}, V_{RRM}	30	60	100	200	300	400
RMS On-State Current ($T_C=40^\circ\text{C}$)	$I_T(\text{RMS})$				0.8		A
Average On-State Current ($T_C=40^\circ\text{C}$)	$I_T(\text{AV})$				0.5		A
Nonrept. On-State Current ($T_C = 60^\circ\text{C}$)	I_{TSM}				10		A
Fusing Current ($t=10\text{ms}$)	I^2t				0.24		A^2s
Peak Reverse Gate Voltage ($I_{GR}=10\mu\text{A}$)	V_{GRM}				8.0		V
Peak Gate Current ($t=10\mu\text{s}$)	I_{GM}				1.0		A
Peak Gate Dissipation ($t=10\mu\text{s}$)	P_{GM}				2.0		W
Gate Dissipation ($t=20\text{ms}$)	$P_G (\text{AV})$				0.1		W
Operating and Storage Junction Temperature	T_J, T_{stg}				-40 to +125		$^\circ\text{C}$
Thermal Resistance	Θ_{JC}				100		$^\circ\text{C}/\text{W}$
Thermal Resistance	Θ_{JA}				200		$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{DRM}, I_{RRM}	Rated $V_{DRM}, V_{RRM}, R_{GK}=1.0\text{ k}\Omega, T_C=25^\circ\text{C}$		1.0	μA
I_{DRM}, I_{RRM}	Rated $V_{DRM}, V_{RRM}, R_{GK}=1.0\text{ k}\Omega, T_C=125^\circ\text{C}$		0.1	mA
V_{TM}	$I_T=1.0\text{ A}$		1.7	V
I_{GT}	$V_D=6.0\text{ V}, R_L=10\Omega$		200	μA
V_{GT}	$V_D=6.0\text{ V}, R_L=10\Omega$		0.8	V
I_H	$R_{GK}=1.0\text{ k}\Omega$		5.0	mA
I_L	$R_{GK}=1.0\text{ k}\Omega$		6.0	mA
dv/dt	$V_D=0.67\text{ V} \times V_{DRM}, R_{GK}=1.0\text{ k}\Omega, T_C=125^\circ\text{C}$	100		$\text{V}/\mu\text{s}$
di/dt	$I_G=10\text{ mA}, di_G/dt=0.1\text{ A}/\mu\text{s}, T_C=125^\circ\text{C}$	30		$\text{A}/\mu\text{s}$

SILICON CONTROLLED RECTIFIER
0.8 AMP, 30 THRU 400 VOLTS

TO-92 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) ANODE
- 2) GATE
- 3) CATHODE

**MARKING CODE:
FULL PART NUMBER**

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

R0 (27-April 2004)

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).

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