

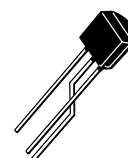
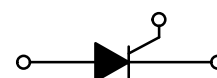
Silicon Controlled Rectifiers

PNPN devices designed for high volume, line-powered consumer applications such as relay and lamp drivers, small motor controls, gate drivers for larger thyristors, and sensing and detection circuits. Supplied in an inexpensive TO-226AA (TO-92) package which is readily adaptable for use in automatic insertion equipment.

- Sensitive Gate Trigger Current — 200 μ A Maximum
- Low Reverse and Forward Blocking Current — 100 μ A Maximum, $T_C = 125^\circ\text{C}$
- Low Holding Current — 5 mA Maximum
- Glass-Passivated Surface for Reliability and Uniformity

BRY55-30*
thru 600*

SCRs
0.8 AMPERE RMS
30 TO 600 VOLTS



CASE 29-04
(TO-226AA)
STYLE 3
WITH TO-18 LEADFORM*

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

Rating	Symbol	Value	Unit
Peak Repetitive Forward and Reverse Blocking Voltage ⁽¹⁾ ($R_{GK} = 1000 \Omega$, $T_J = 25$ to 125°C) Marking: BRY55-1 . . . BRY55-30 -2 . . . BRY55-60 -3 . . . BRY55-100 -4 . . . BRY55-200 -6 . . . BRY55-400 -7 . . . BRY55-500 -8 . . . BRY55-600	V_{RRM} , V_{DRM}	30 60 100 200 400 500 600	Volts
Forward Current RMS (All Conduction Angles)	$I_T(\text{RMS})$	0.8	Amp
Peak Forward Surge Current, $T_A = 25^\circ\text{C}$ (1/2 Cycle, Sine Wave, 60 Hz)	I_{TSM}	8	Amps
Circuit Fusing Considerations, $T_A = 25^\circ\text{C}$ ($t = 8.3$ ms)	I^2t	0.15	A^2s
Peak Gate Power — Forward, $T_A = 25^\circ\text{C}$	P_{GM}	0.1	Watt
Peak Gate Current Forward, $T_A = 25^\circ\text{C}$ (300 μs , 120 PPS)	I_{GFM}	1	Amp
Peak Gate Voltage — Reverse	V_{GRM}	5	Volts
Operating Junction Temperature Range @ Rated V_{RRM} and V_{DRM}	T_J	-40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +150	$^\circ\text{C}$
Lead Solder Temperature (< 1.5 mm from case, 10 s max.)		+230	$^\circ\text{C}$

*European part numbers only. Package is Case 29 with Leadform 18.

1. V_{DRM} and V_{RRM} for all types can be applied on a continuous basis. Ratings apply for zero or negative gate voltage; however, positive gate voltage shall not be applied concurrent with negative potential on the anode. Blocking voltages shall not be tested with a constant current source such that the voltage ratings of the devices are exceeded.



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\$150 US for 3 months membership, and \$500 US for a yearly membership.

“Searchdatasheets provides users with one of the Internet’s most complete sources for obsolete datasheets,” said Ariel Zriel, President, Market Maker Systems.

As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

“Once a component manufacturer decides to eliminate a component datasheet from its web site,” said Zriel, “we take over and list it along with the millions of other datasheets that our users can quickly access.”

Users can perform standard searches for datasheets, or use the cross-reference search option if they want to find a compatible part from another manufacturer.

Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

“We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site,” said Zriel. “We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design.”

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