

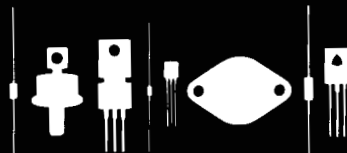
Central Semiconductor Corp.

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145 Adams Avenue
Hauppauge, New York 11788



1N4454

SILICON SWITCHING DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4454 type is a high speed Silicon Switching Diode designed for computer and general purpose applications.

MAXIMUM RATINGS (T_A = 25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	75	V
Average Forward Current	I _O	150	mA
Forward Steady-State Current	I _F	200	mA
Peak Forward Surge Current (1.0μs pulse)	I _{FSM}	4000	mA
Power Dissipation	P _D	500	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200	°C

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
BV _R	I _R = 5.0μA	75		V
I _R	V _R = 50V		100	nA
I _R	V _R = 50V, T _A = 150°C		100	μA
V _F	I _F = 10mA		1.0	V
C _T	V _r = 0, f = 1.0MHz		2.0	pF
t _{rr}	V _R = 6.0V, I _F = 10mA, I _{rr} = 1.0mA, R _L = 100Ω		2.0	ns
t _{rr}	I _F = I _R = 10mA, I _{rr} = 1.0mA		4.0	ns

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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
- 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).

CONTACT US

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