

Silicon Diode

NS8DT

200V / 8A

DATASHEET

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OEM – General Semiconductor

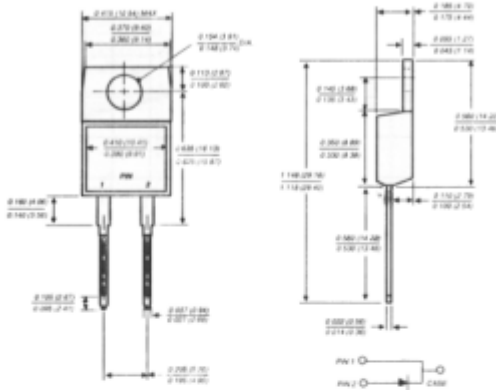
Source: General Semiconductor Databook 1998

NS8AT THRU NS8MT

GLASS PASSIVATED GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

TO-220AC



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High forward current capability
- ◆ High surge current capability
- ◆ Low forward voltage drop
- ◆ Glass passivated chip junction
- ◆ High temperature soldering guaranteed: 260°C/10 seconds, 0.160" (4.06 mm) lead length



MECHANICAL DATA

Case: JEDEC TO-220AB molded plastic body over passivated chip

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Torque: 5 in. - lbs. max.

Mounting Position: Any

Weight: 0.064 ounce, 1.81 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	NS8 AT	NS8 BT	NS8 DT	NS8 GT	NS8 JT	NS8 KT	NS8 MT	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at T _C =100°C	I _(AV)	8.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125.0							Amps
Maximum instantaneous forward voltage at 8.0A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage T _C =25°C T _C =100°C	I _R	10.0 100.0							μA
Typical junction capacitance (NOTE 1)	C _J	55.0							pF
Typical thermal resistance (NOTE 2)	R _{θJC}	3.0							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150							°C

NOTES:

- (1) Measured at 1.0 MHz and applied reversed voltage of 4.0 Volts
- (2) Thermal resistance from junction to case mounted on heatsink

RATINGS AND CHARACTERISTIC CURVES NS8AT THRU NS8MT

