

Bridge Rectifier

3N254

100V / 2A

DATASHEET

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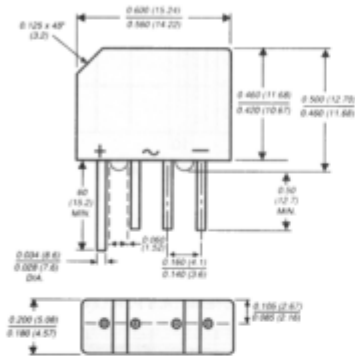
OEM – General Semiconductor

Source: General Semiconductor Databook 1998

2KBP005M THRU 2KBP10M SERIES 3N253 THRU 3N259

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER
Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

Case Style KBPM

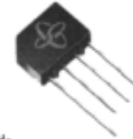


Polarity shown on front side of case: positive lead by beveled corner

Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ This series is UL listed under the Recognized Component Index, file number E54214
- ◆ Glass passivated chip junctions
- ◆ Typical I_R less than $0.1\mu A$
- ◆ High case dielectric strength
- ◆ Ideal for printed circuit boards
- ◆ High temperature soldering guaranteed:
260°C/10 seconds at 5 lbs. (2.3kg) tension



MECHANICAL DATA

Case: Molded plastic body over passivated junctions

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

Mounting Position: Any

Weight: 0.06 ounce, 1.7 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	2KBP 005M 3N253	2KBP 01M 3N254	2KBP 02M 3N255	2KBP 04M 3N256	2KBP 06M 3N257	2KBP 08M 3N258	2KBP 10M 3N259	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 output rectified current at $T_A=55^\circ C$	$I_{(AV)}$	2.0							Amps
* Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) $T_J=150^\circ C$	I_{FSM}	60.0							Amps
Rating for fusing ($t < 8.3ms$)	I_t	15.0							A ² sec
* Maximum instantaneous forward voltage drop per leg at 3.14A	V_F	1.1							Volts
* Maximum DC reverse current at rated DC blocking voltage per leg $T_A=25^\circ C$ $T_A=125^\circ C$	I_R	5.0 500.0							μA
Typical junction capacitance per leg (NOTE 1)	C_J	25.0							pF
Typical thermal resistance per leg (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	30.0 11.0							$^\circ C/W$
* Operating junction and storage temperature range	T_J, T_{STG}	-55 to +165							$^\circ C$

NOTES:

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(2) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12 x 12mm) copper pads

* JEDEC registered values

RATINGS AND CHARACTERISTICS CURVES 3N253 THRU 3N259 / 2KBP005M THRU 2KBP10M

