

SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C, 0.25" (6.35mm) from case for 10 seconds

Mechanical Data

Case : JEDEC TO-220AB Molded plastic body

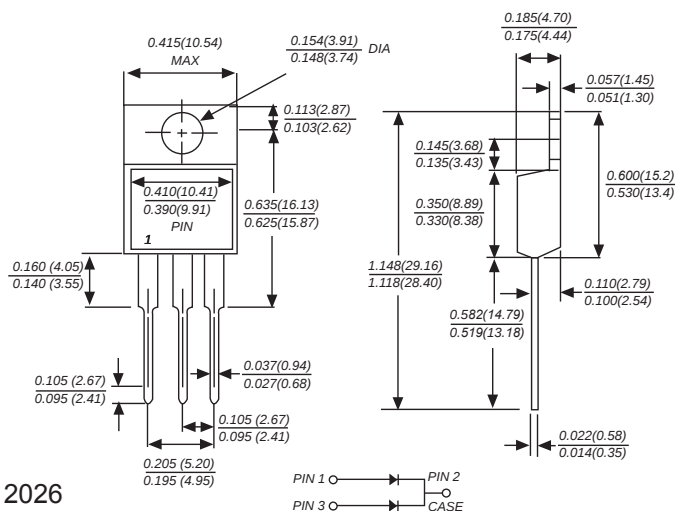
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.080 ounce, 2.24 grams

TO-220AB



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

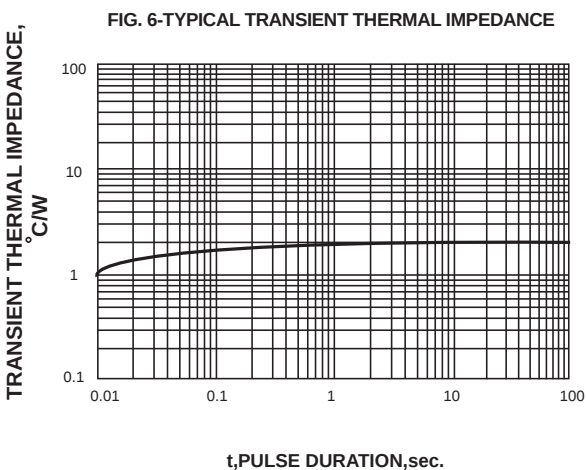
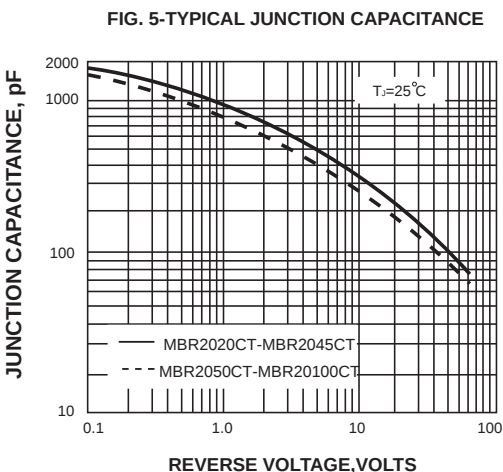
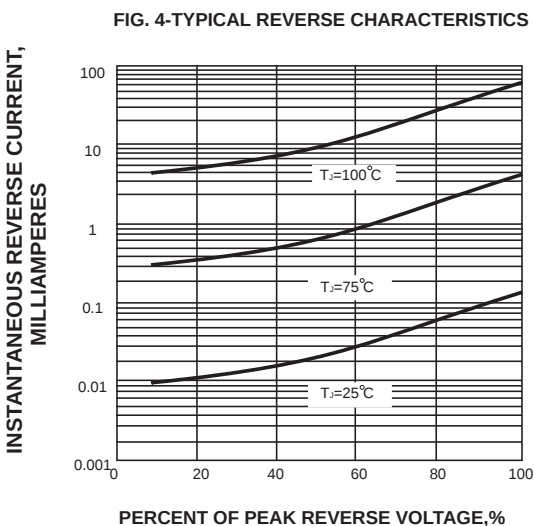
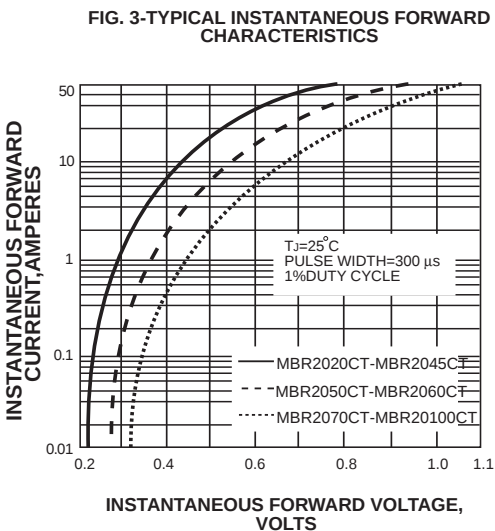
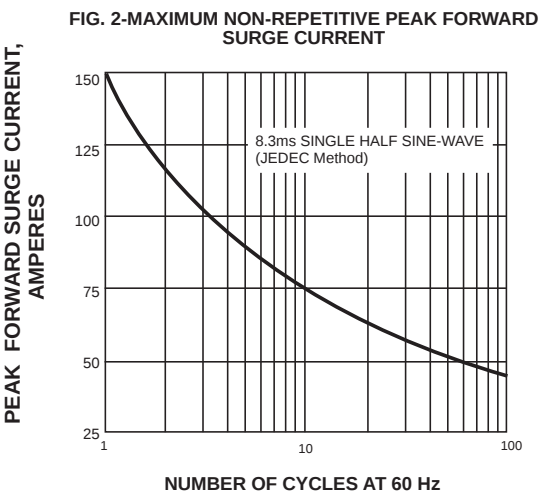
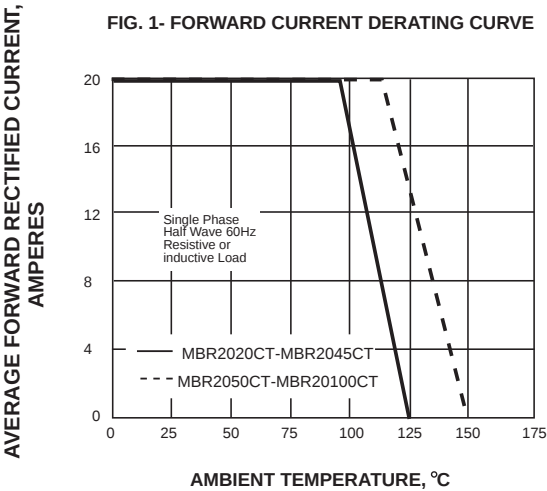
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD MBR 2020CT	MDD MBR 2030CT	MDD MBR 2040CT	MDD MBR 2045CT	MDD MBR 2050CT	MDD MBR 2060CT	MDD MBR 2070CT	MDD MBR 2080CT	MDD MBR 2090CT	MDD MBR 20100CT	UNITS
Marking Code												
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	45	50	60	70	80	90	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	32	35	42	49	56	63	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	45	50	60	70	80	90	100	V
Maximum average forward rectified current (see fig.1)	I _(AV)	20.0										A
Peak forward surge current 8.3ms single half sine-wave	I _{FSM}	150										A
Maximum instantaneous forward voltage at 10.0A	V _F	0.55					0.75		0.85			V
Maximum DC reverse current at rated DC blocking voltage	I _R	1.0										mA
		15.0					50.0					
Typical junction capacitance (NOTE 1)	C _J	550					450					pF
Typical thermal resistance (NOTE 2)	R _{θJC}	2.0										°C/W
Operating junction temperature range	T _J	-50 to +125					-50 to +150					°C
storage temperature range	T _{STG}	-50 to +150										°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to case.

Ratings And Characteristic Curves



The curve above is for reference only.