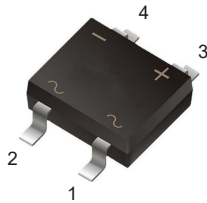


Different Color Bridge Rectifier

NB8M

IBS



PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

Features

- Glass passivated chip
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering: 260 °C/10S at terminals
- Lead and body according with RoHS standard

Mechanical Date

- Case: IBS
- Molding compound meets UL 94 V-0 flammability rating
- Polarity: Molded on body

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	NB8M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current at $T_c = 40\text{ °C}$	I_O	0.6	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25	A
Forward Voltage per element at $I_F = 0.5A$	V_F	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_a = 25\text{ °C}$ @ $T_a = 125\text{ °C}$	I_R	5 500	μA
Typical Junction Capacitance ($VR=4.0V, f=1MHz$)	C_j	13	pF
Typical Thermal Resistance	$R_{\theta JA}$	60	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

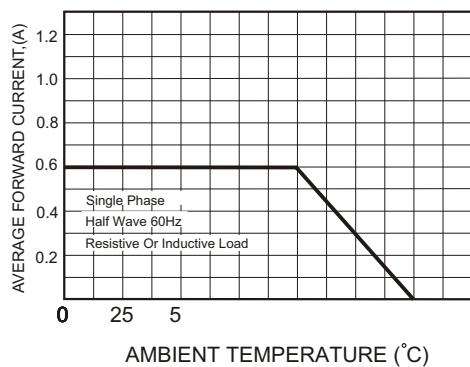


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

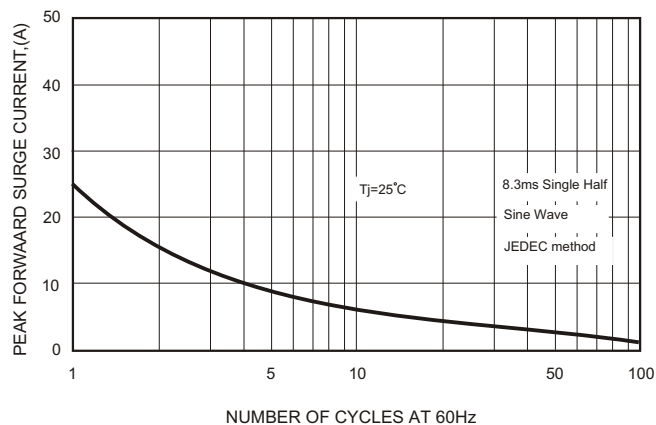


FIG.3-TYPICAL FORWARD CHARACTERISTICS

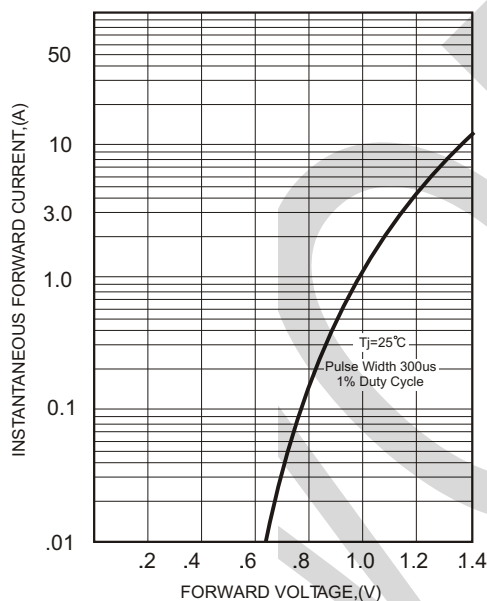
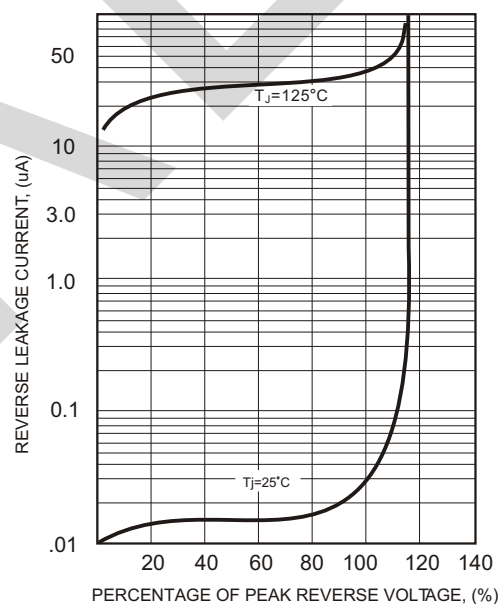
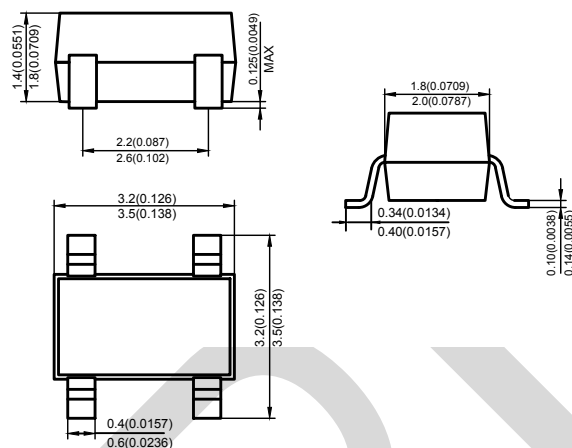


FIG.4-TYPICAL REVERSE CHARACTERISTICS



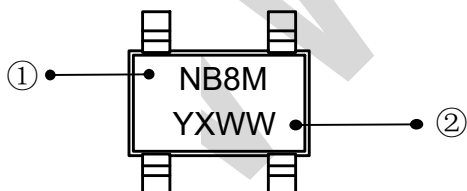
PACKAGE OUTLINE DIMENSIONS

IBS



Dimensions in millimeters(inches)

Marking Information



①Product model : NB8M

②PDC information :

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)