HD50SB10 THRU HD50SB120
HGBJ Plastic-Encapsulate Bridge Rectifier

Reverse Voltage
50-1000 V

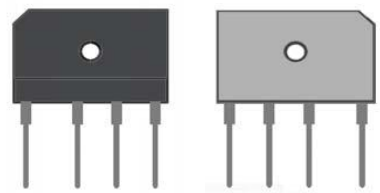
Forward Current
50.0 A max

Features
- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

Applications
- General purpose use in AC/DC bridge full wave rectification

Mechanical Data
- Case：HGBJ
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant,Solder plated, solderable per MIL-STD-750,Method 2026

Appearance Image



Marking
- HD50SBxx(10~120)

Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	HD50SB 10	HD50SB 20	HD50SB 40	HD50SB 60	HD50SB 80	HD50SB 100	HD50SB 120
Repetitive peak reverse voltage	V_{RRM}	V	100	200	400	600	800	1000	1200
Maximum RMS voltage	V_{RMS}	V	70	140	280	420	560	700	840
Maximum DC blocking Voltage	V_{DC}	V	100	200	400	600	800	1000	1200
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	50.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	500						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	1000						
Current squared time @1ms≤t<8.3ms Tj=25°C，Rating of per diode	I^2t	A^2S	1037.50						
Storage temperature	T_{stg}	°C	-55～+150						
Junction temperature	T_j	°C	-55～+150						

Electrical Characteristics @ Ta = 25°C unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	HD50SB 10	HD50SB 20	HD50SB 40	HD50SB 60	HD50SB 80	HD50SB 100	HD50SB 120
Maximum instantaneous forward voltage	I_F=25.0A	V_F	V	1.0						
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, Tj=25°C	I_R	μA	10						
	V_R=V_{DC}, Tj=100°C	I_R		500						

Characteristic Curve (Typical)

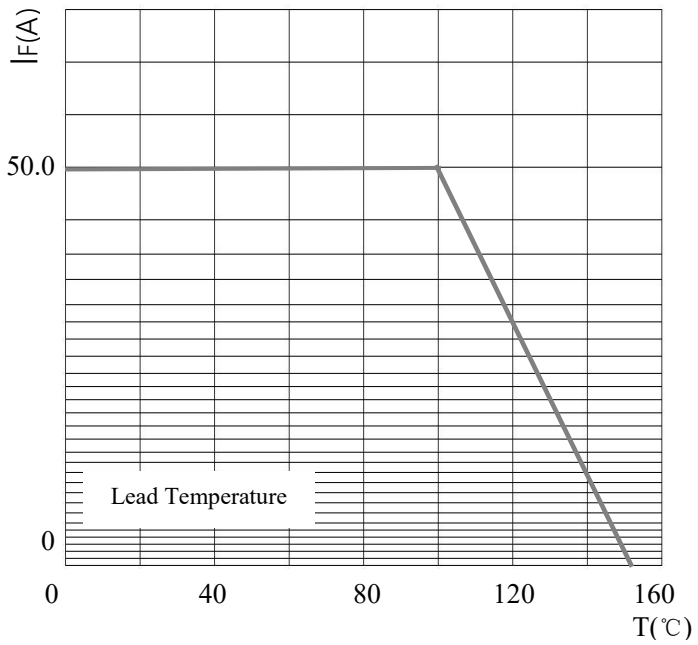


FIG1.Derating Curve For Output Rectified Current

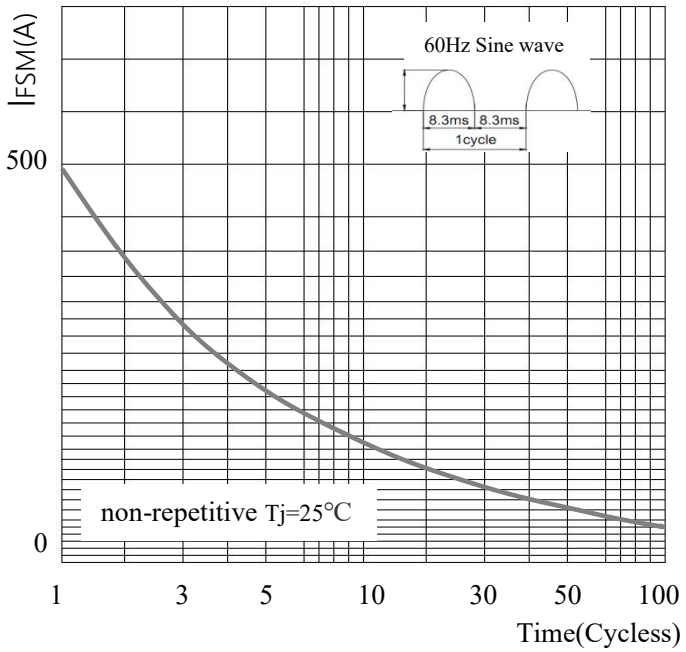


FIG2. Surge Forward Current Capability

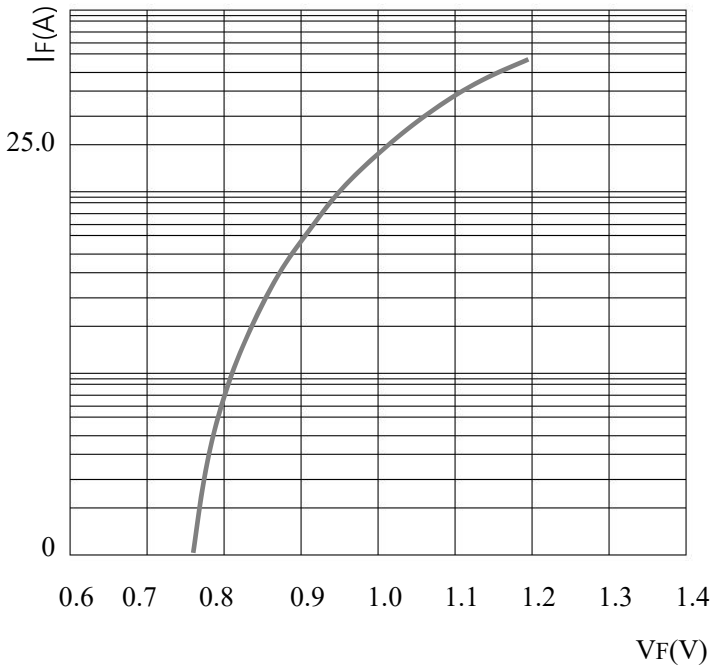


FIG3.Typical Forward Characteristics

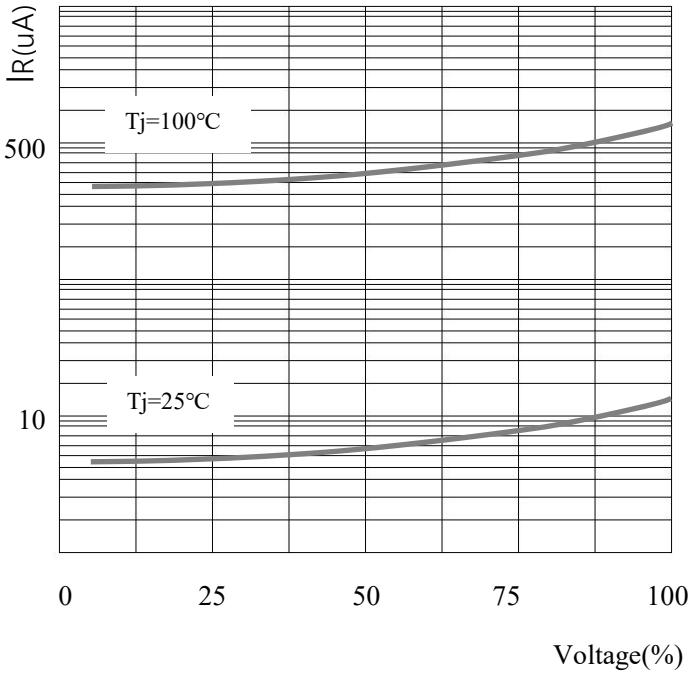
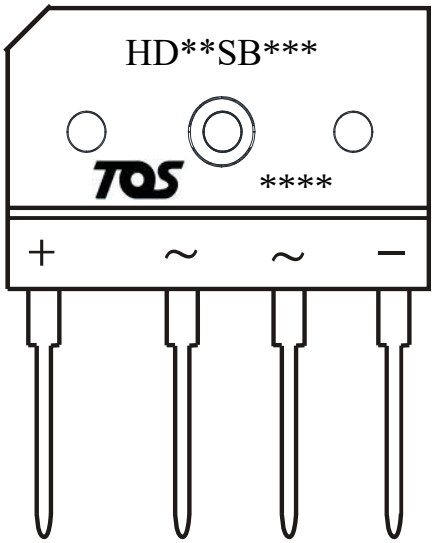


FIG4.Typical Reverse Characteristics

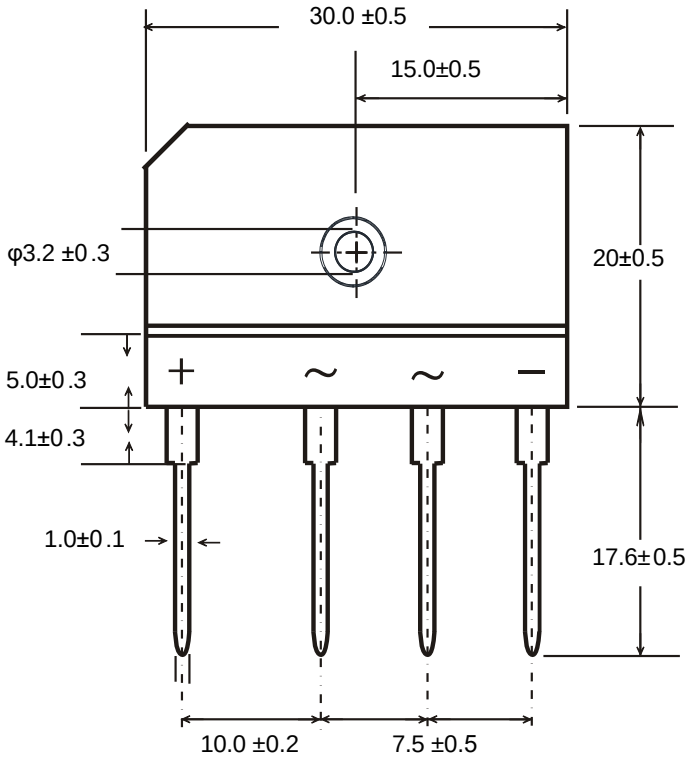
Marking and packet information

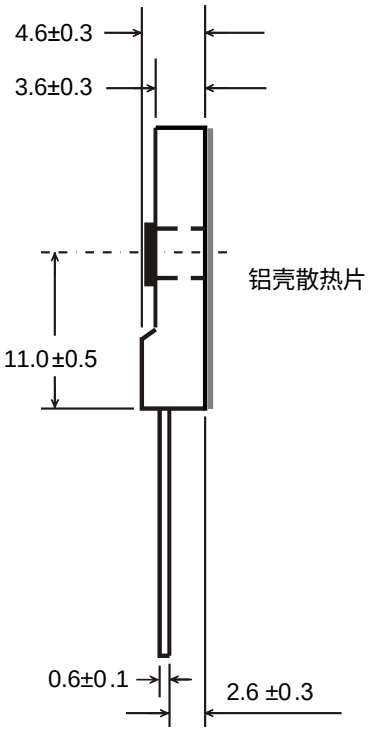


HD**SB***：Marking Model　　TOS：Brand Logo

Packaging information	
每盒	250PCS
每箱	2000PCS
脚长定制	支持

HGBJ Package outline dimensions





Dimensions in milimeters

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