

■ 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: DBM
- 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



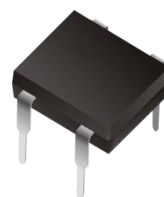
Reverse Voltage

50-1000 V

Forward Current

3.0 A max

Appearance Image



■ Marking

- DB3xx(01~07)

■ Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	DB301	DB302	DB303	DB304	DB305	DB306	DB307
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	3.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	80						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	160						
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I^2t	A²S	26.56						
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	DB301	DB302	DB303	DB304	DB305	DB306	DB307
Maximum instantaneous forward voltage	$I_F=1.5A$	V_F	V	1.0						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}$, Tj=25°C	I_R	μA	10						
	$V_R=V_{DC}$, Tj=100°C	I_R		100						

■ Characteristic Curve (Typical)

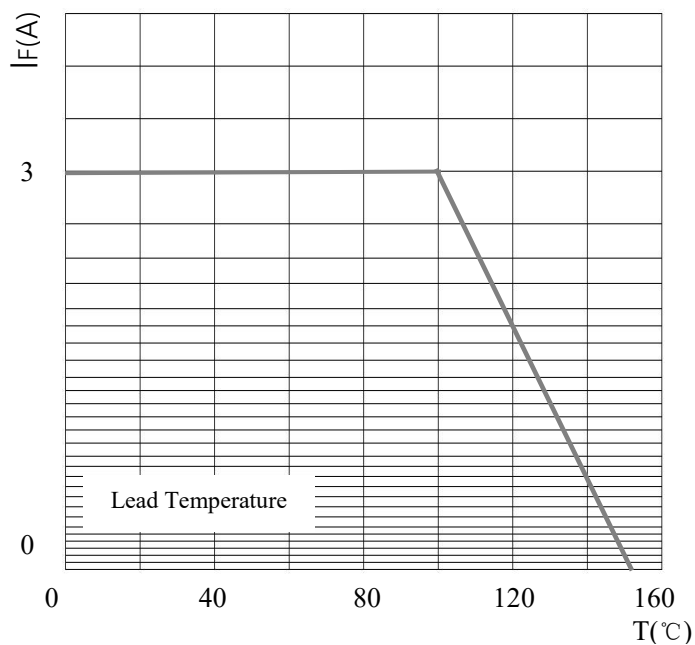


FIG1. Derating Curve For Output Rectified Current

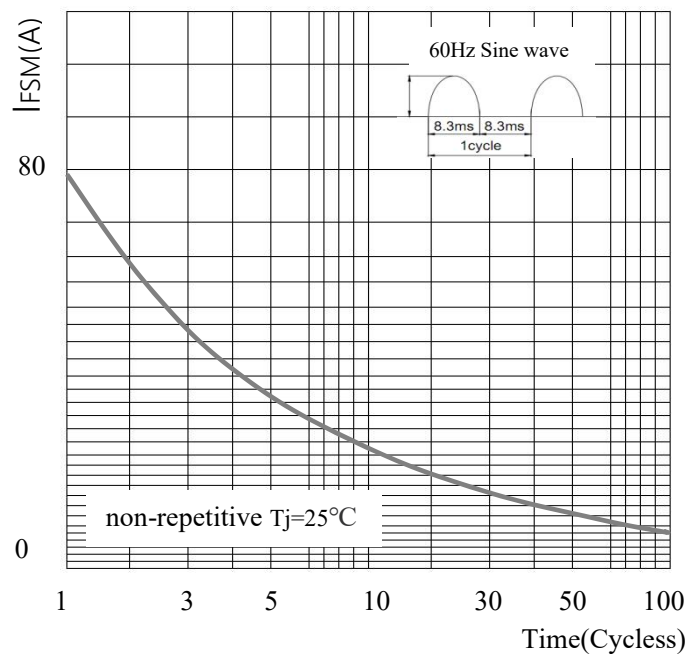


FIG2. Surge Forward Current Capability

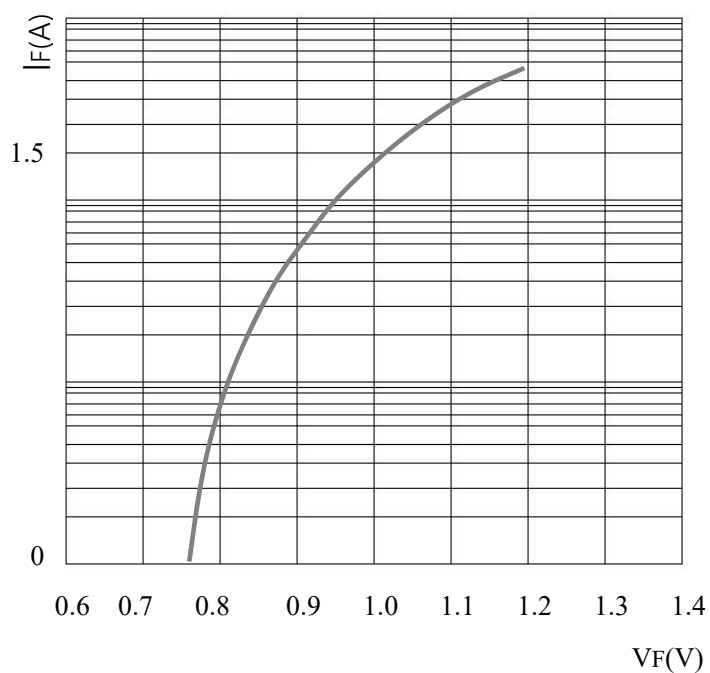


FIG3. Typical Forward Characteristics

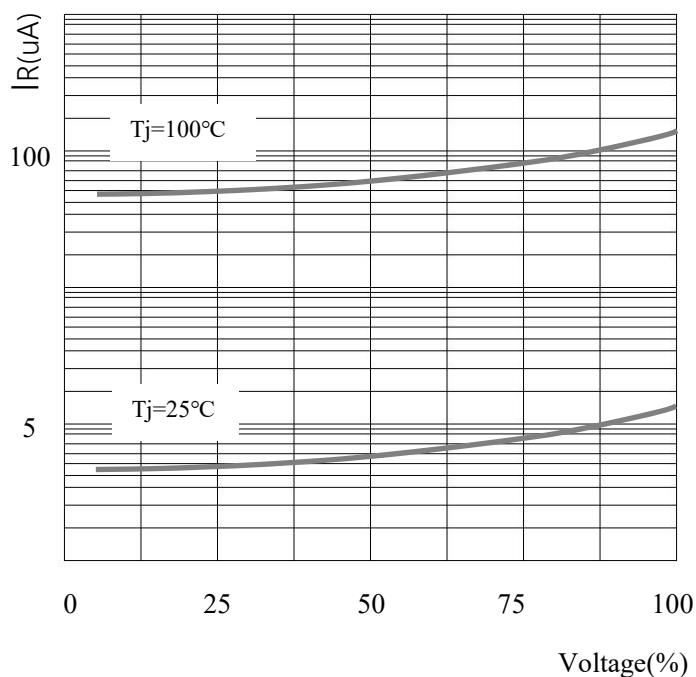
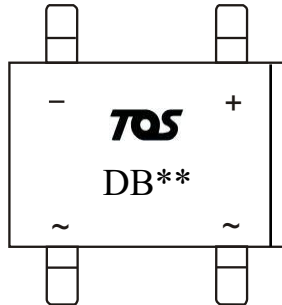


FIG4. Typical Reverse Characteristics

Marking and packet information



DIP Vertical View

DB**: Product Type Code **TOS** : Brand Loge

Packaging information	
Tube	50PCS
Box	2500PCS
Carton	10000PCS

DBM Package outline dimensions

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	6.20	6.50	0.244	0.256
B	7.95	8.35	0.313	0.329
C	5.00	5.20	0.197	0.205
D	0.95	1.15	0.037	0.045
E	1.39	1.9	0.055	0.074
e	0.46	0.58	0.018	0.023
F	2.80	3.3	0.110	0.130
G	1.27	2.03	0.050	0.800
H	7.24	8.00	0.285	0.315
I	7.6	8.9	0.300	0.350
J	0.18	0.33	0.007	0.013
K	3.81	4.69	0.15	0.185

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