

■ **Features**

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

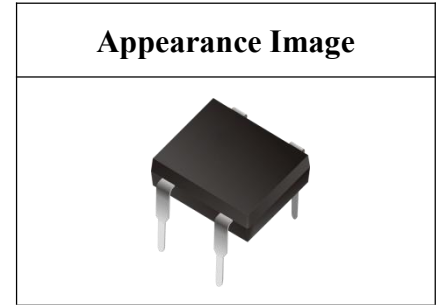
<b>Reverse Voltage</b> 50-1000 V
<b>Forward Current</b> 1.0 A max

■ **Applications**

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

■ **Mechanical Data**

- Case: DFM
- 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



■ **Marking**

- DFxxM(005~10)

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

PARAMETER	SYMBOL	UNIT	DF005M	DF01M	DF02M	DF04M	DF06M	DF08M	DF10M
Repetitive peak reverse voltage	V <sub>RRM</sub>	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V <sub>RMS</sub>	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V <sub>DC</sub>	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	I <sub>F(AV)</sub>	A	1.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I <sub>FSM</sub>	A	40						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	80						
Current squared time @ 1ms ≤ t < 8.3ms T <sub>j</sub> = 25°C, Rating of per diode	I <sup>2</sup> t	A <sup>2</sup> S	6.64						
Storage temperature	T <sub>stg</sub>	°C	-55~+150						
Junction temperature	T <sub>j</sub>	°C	-55~+150						

■ **Electrical Characteristics @ Ta = 25°C unless otherwise noted**

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	DF005M	DF01M	DF02M	DF04M	DF06M	DF08M	DF10M
Maximum instantaneous forward voltage	I <sub>F</sub> = 0.5A	V <sub>F</sub>	V	1.0						
Maximum DC reverse current at rated DC blocking voltage	V <sub>R</sub> = V <sub>DC</sub> , T <sub>j</sub> = 25°C	I <sub>R</sub>	μA	5						
	V <sub>R</sub> = V <sub>DC</sub> , T <sub>j</sub> = 100°C	I <sub>R</sub>		100						

■ **Characteristic Curve (Typical)**

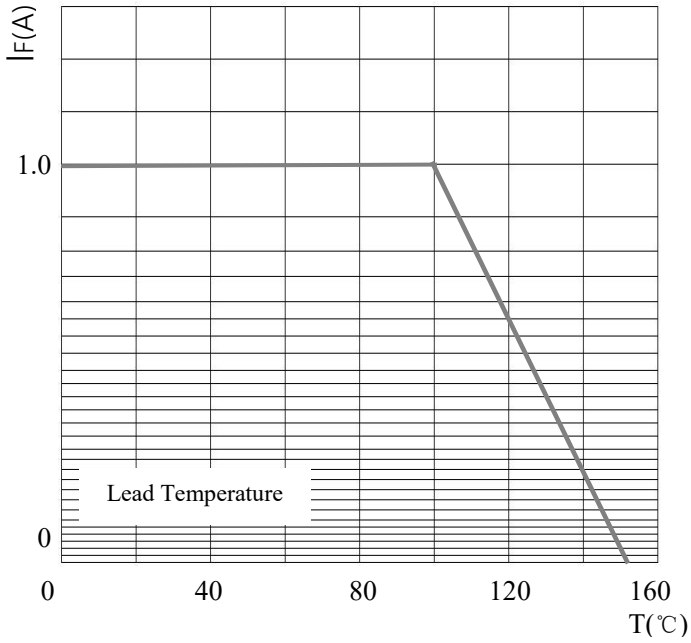


FIG1. Derating Curve For Output Rectified Current

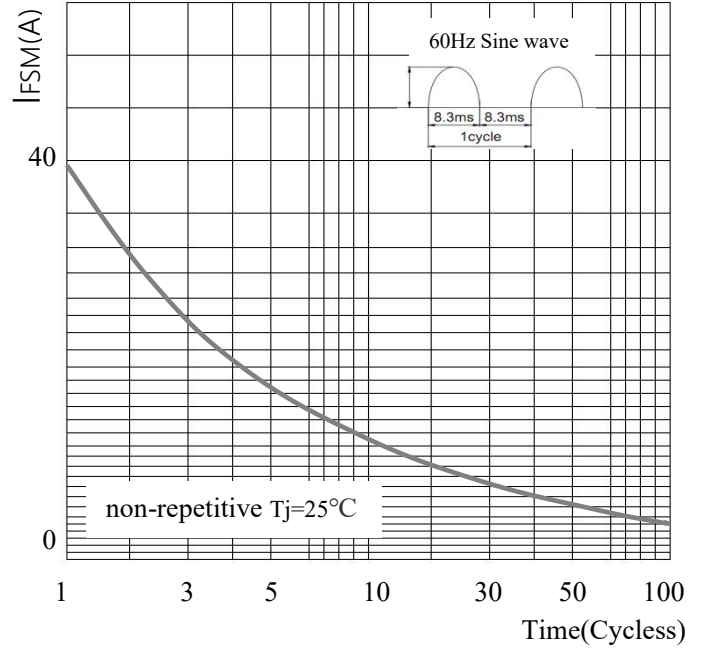


FIG2. Surge Forward Current Capability

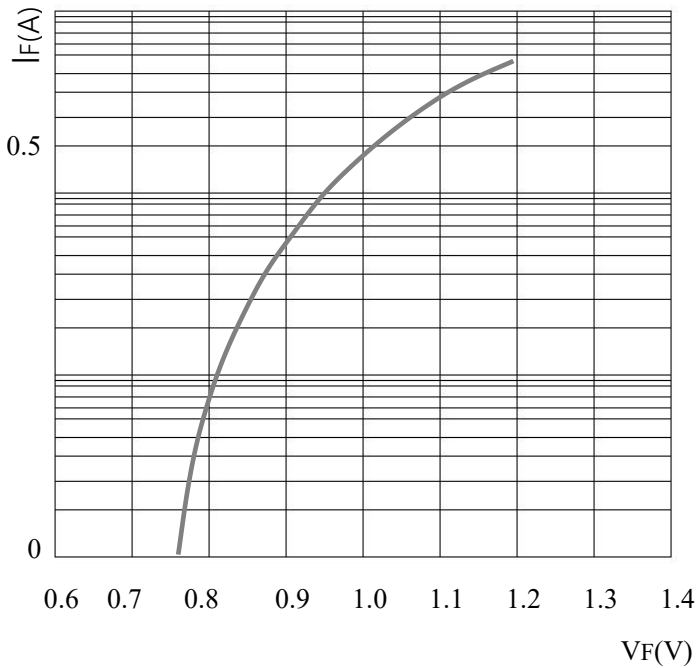


FIG3. Typical Forward Characteristics

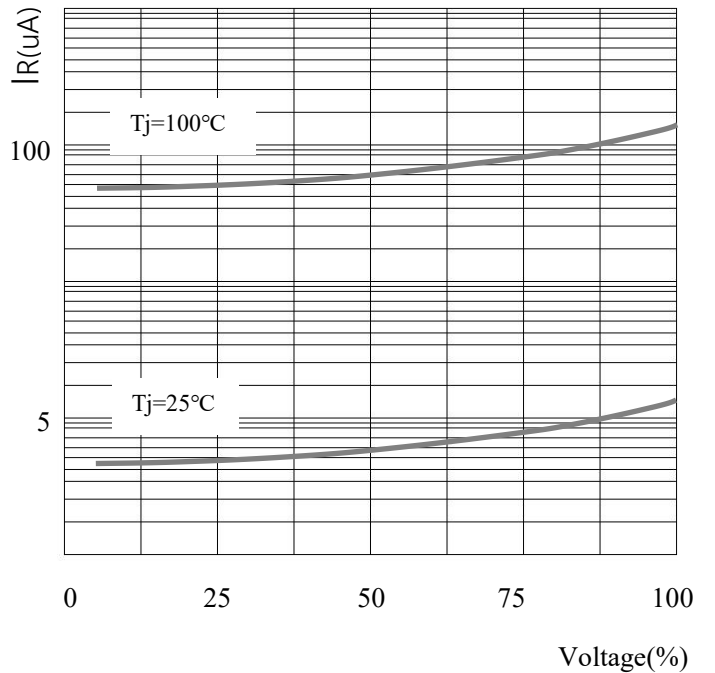
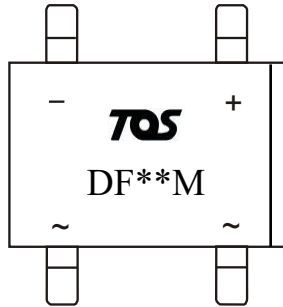


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**



DIP Vertical View

DF\*\*M: Product Type Code **TOS**: Brand Logo

Packaging information	
Tube	50PCS
Box	2500PCS
Carton	10000PCS

■ **DFM 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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