

# DF005M, DF01M, DF02M, DF04M, DF06M, DF08M, DF10M

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# Vishay General Semiconductor

<b>ELECTRICAL CHARACTERISTICS</b> (T <sub>A</sub> = 25 °C unless otherwise noted)										
PARAMETER	TEST CONDITIONS	SYMBOL	DF005M	DF01M	DF02M	DF04M	DF06M	DF08M	DF10M	UNIT
Maximum instantaneous forward voltage drop per diode	1.0 A	V <sub>F</sub>	1.1					V		
Maximum reverse current at rated DC blocking voltage per diode	T <sub>A</sub> = 25 °C		5.0							
	T <sub>A</sub> = 125 °C	IR	500							μA
Typical junction capacitance per diode	4.0 V, 1 MHz	CJ				25				рF

THERMAL CHARACTERISTICS (T <sub>A</sub> = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL	DF005M	DF01M	DF02M	DF04M	DF06M	DF08M	DF10M	UNIT
Typical thermal resistance (1)	$R_{\theta JA}$	40							
Typical thermal resistance (9)	$R_{ heta JL}$	15							

#### Note

<sup>(1)</sup> Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.5" x 0.5" (13 mm x 13 mm) copper pads

ORDERING INFORMATION (Example)								
PREFERRED P/N	UNIT WEIGHT (g)	JNIT WEIGHT (g) PREFERRED PACKAGE CODE		DELIVERY MODE				
DF06M-E3/45	0.416	45	50	Tube				



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#### RATINGS AND CHARACTERISTICS CURVES (T<sub>A</sub> = 25 °C unless otherwise noted)

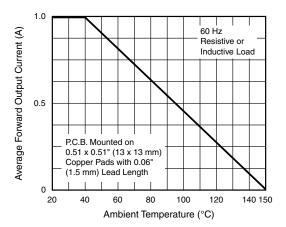


Fig. 1 - Derating Curve Output Rectified Current

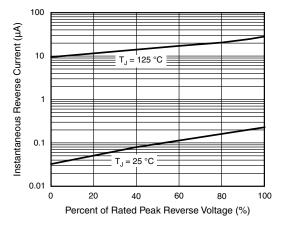


Fig. 4 - Typical Reverse Leakage Characteristics Per Diode

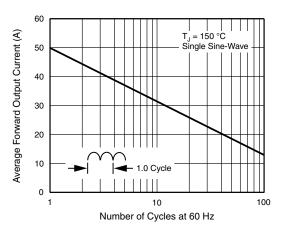


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

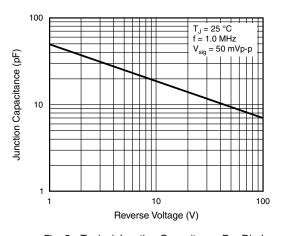


Fig. 5 - Typical Junction Capacitance Per Diode

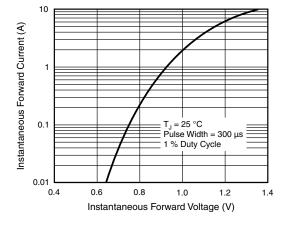


Fig. 3 - Typical Forward Characteristics Per Diode

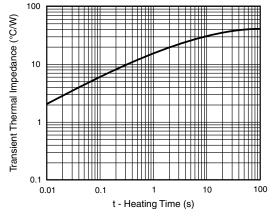


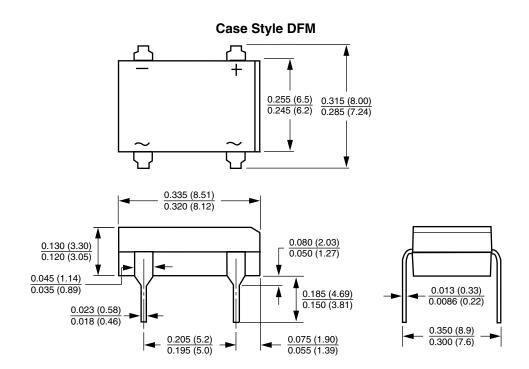
Fig. 6 - Typical Transient Thermal Impedance

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#### **PACKAGE OUTLINE DIMENSIONS** in inches (millimeters)

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