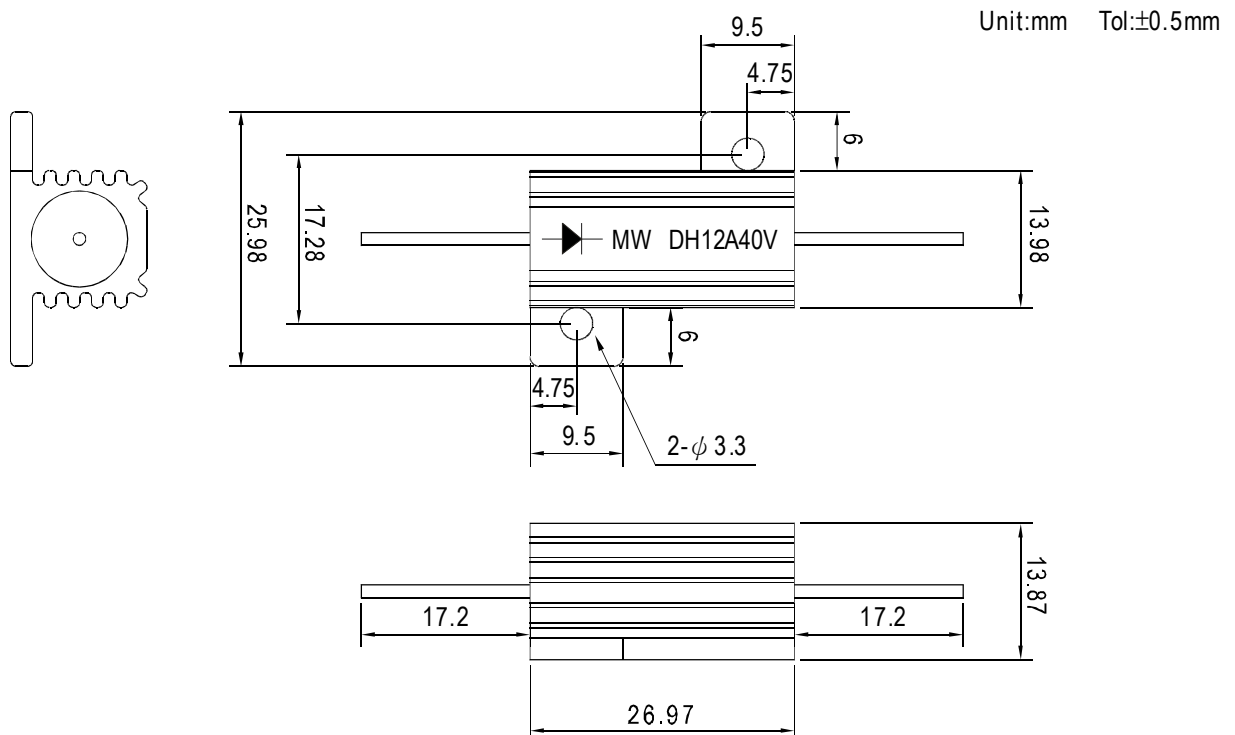




- Features :
 - Low forward voltage drop
 - High current capability
 - High reliability
 - High surge current capability

Maximum ratings and Electrical characteristics

Parameters		DH12A40V	UNIT
Maximum Recurrent Peak Reverse Voltage		40	V
Maximum RMS Voltage		28	V
Maximum DC Blocking Voltage		40	V
Maximum Average Forward Rectified Current		12	A
Peak Forward Surge Current		275	A
Maximum Instantaneous Forward Voltage	T _j = 25°C	IF = 5A IF = 10A IF = 12A	0.40 0.48 0.5
	T _j = 125°C	IF = 5A IF = 10A IF = 12A	0.30 0.38 0.4
Maximum Average Reverse Current at Rated DC Blocking Voltage	T _j = 25°C		0.5
	T _j = 125°C		100
Typical Junction Capacitance		350	pF
Typical Thermal Resistance	R _{th(j-A)}	25	°C / W
	R _{th(j-C)}	15	
Operating Temperature Range T _c		-50 to +125	°C
Storage Temperature Range		-50 to +175	°C



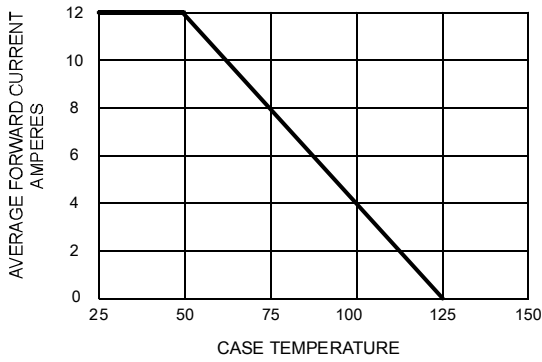


Figure 1. Forward Current Derating Curve

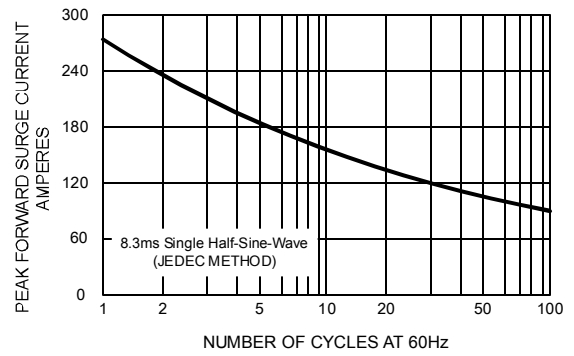


Figure 2. Maximum Non-repetitive Surge Current

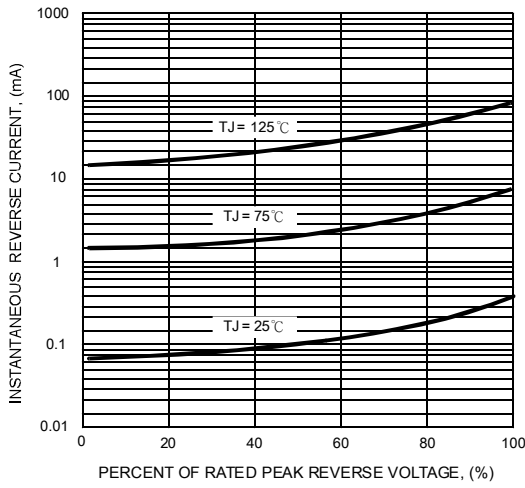


Figure 3. Typical Reverse Characteristics

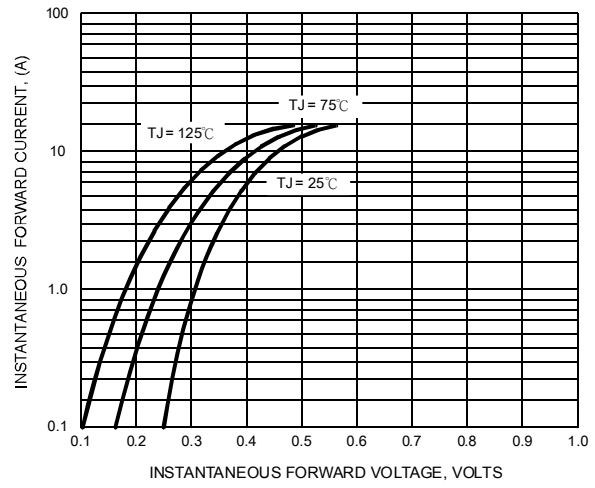


Figure 4. Typical Forward Characteristics

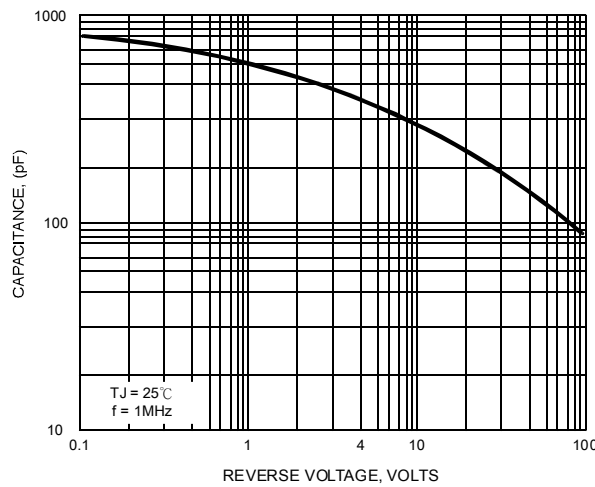


Figure 5. Typical Junction Capacitance