

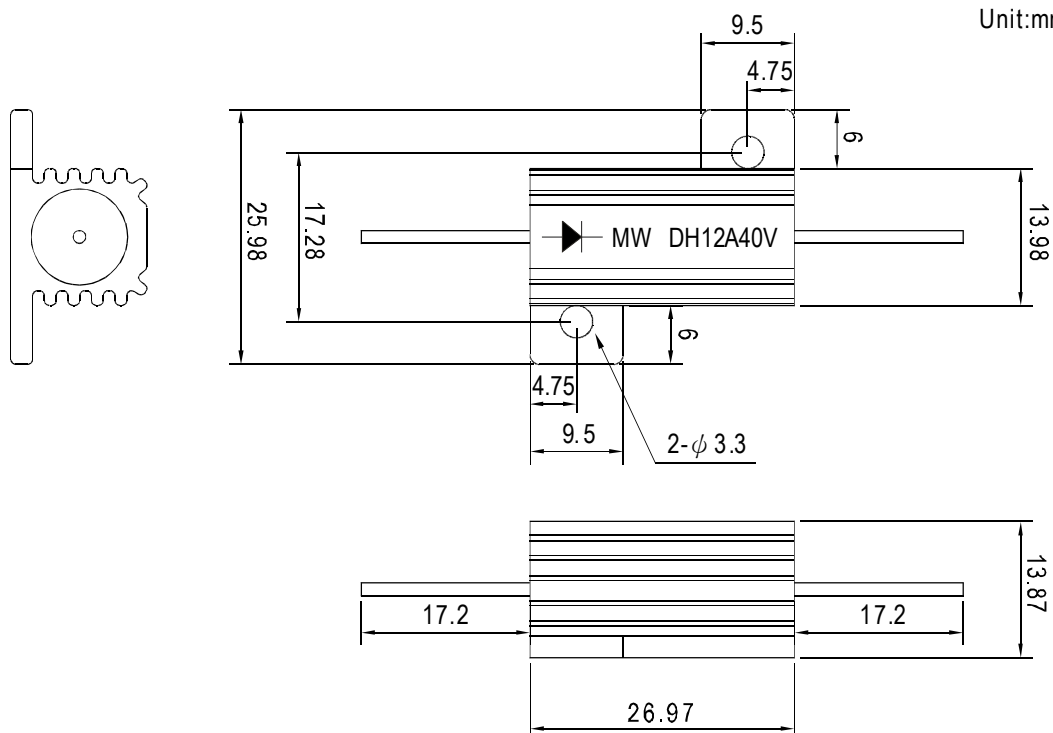


- Features :
- Low forward voltage drop
 - High current capability
 - High reliability
 - High surge current capability

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	Tj = 25℃	IF = 5A IF = 10A IF = 12A	0.40 0.48 0.5	V
	Tj= 125℃	IF = 5A IF = 10A IF = 12A	0.30 0.38 0.4	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tj = 25℃		0.5	mA
	Tj= 125℃		100	
Typical Junction Capacitance			350	pF
Typical Thermal Resistance		Rth(j-A)	25	℃ / W
		Rth(j-C)	15	
Operating Temperature Range Tc			-50 to +125	℃
Storage Temperature Range			-50 to +175	℃

Unit:mm Tol:±0.5mm



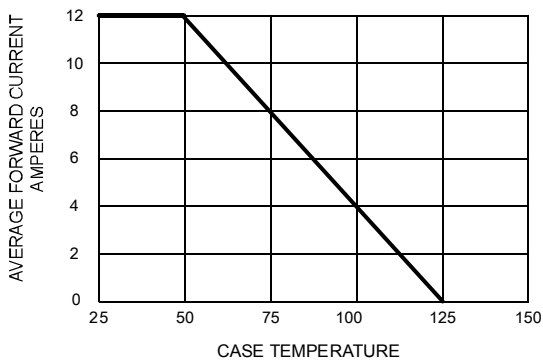


Figure 1. Forward Current Derating Curve

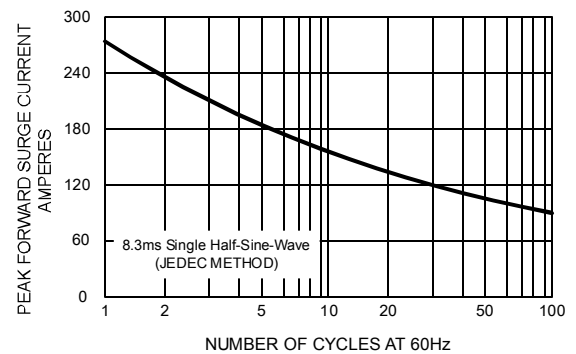


Figure 2. Maximum Non-repetitive Surge Current

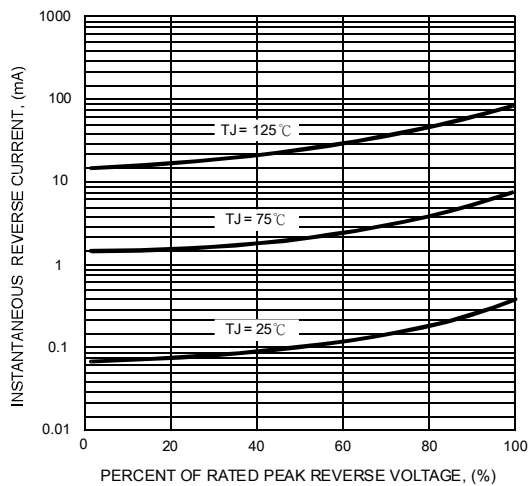


Figure 3. Typical Reverse Characteristics

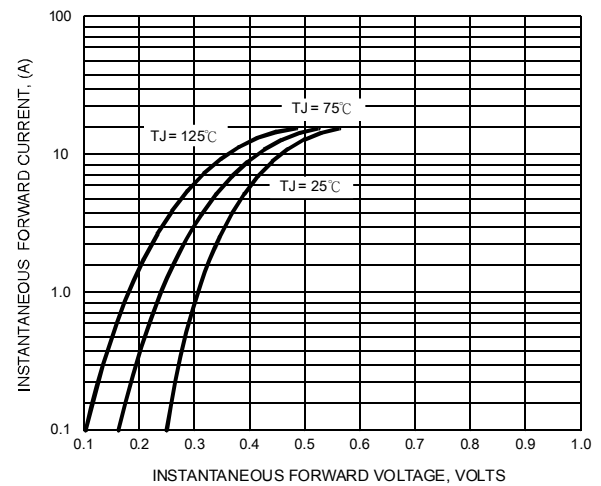


Figure 4. Typical Forward Characteristics

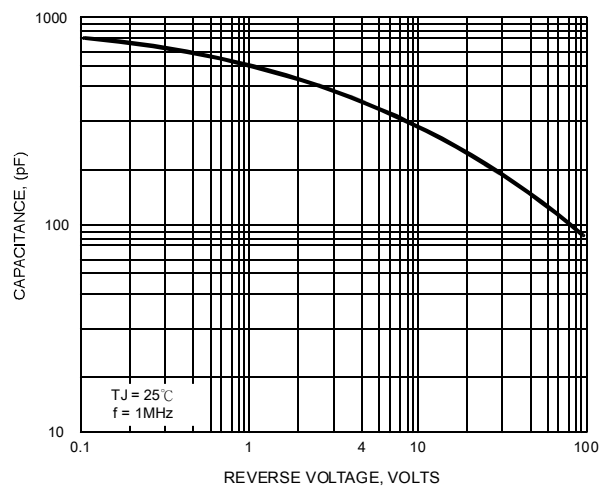


Figure 5. Typical Junction Capacitance