DACO SEMICONDUCTOR CO., LTD.

MBRT30060(R)

SCHOTTKY DIODE MODULE TYPE
300A / 60V

Features

High Surge Capability

Type 60V V_{RRM}

Isolation Type Package

Electrically Isolation base plate

THREE TOWER

Maximum Ratings

Operating Temperature : -55℃ to+150 ℃

Storage Temperature : -55℃ to+150 ℃

Dimensions in mm (1 mm = 0.0394")

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRT30060(R)	60V	42V	60V

Electrcal Characteristics @ 25℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	300A	T_C =125℃
Peak Forward Surge Current (Per diode)	I_{FSM}	2000A	8.3ms,half sine
Maximum Instantaneous Forward Voltage (Per diode)	V_F	0.75V	I_{FM}=150A; T_J=25℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per diode)	I_R	1 mA / 8 mA / 20 mA	T_J = 25℃ / T_J =125℃ / T_J =150℃
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.40℃/W	
Weight		103g	

NOTE : (1) Pulse Test: Pulse Width 300 μ sec,Duty<2%

LUG Teminal Anode 1 LUG Teminal Catode 2 LUG Teminal Anode 3   LUG Teminal Cathode 1 LUG Teminal Anode 2 LUG Teminal Cathode 3
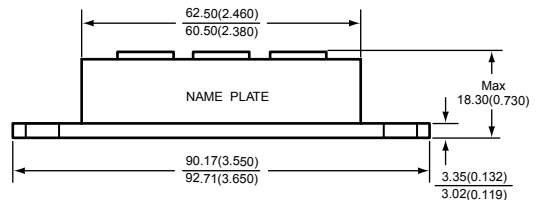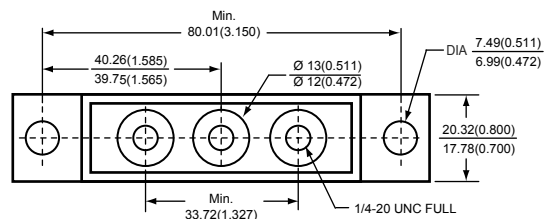
Commom Center Common Cathode &N-Type

Common Center R=Common Anode & P-Type

Figure .1- Typical Forward Characteristics

$T_J = 25°C$

Instantaneous Forward Current - Ampere
Amp Per diode

Volts
Instantaneous Forward Voltage -Volts
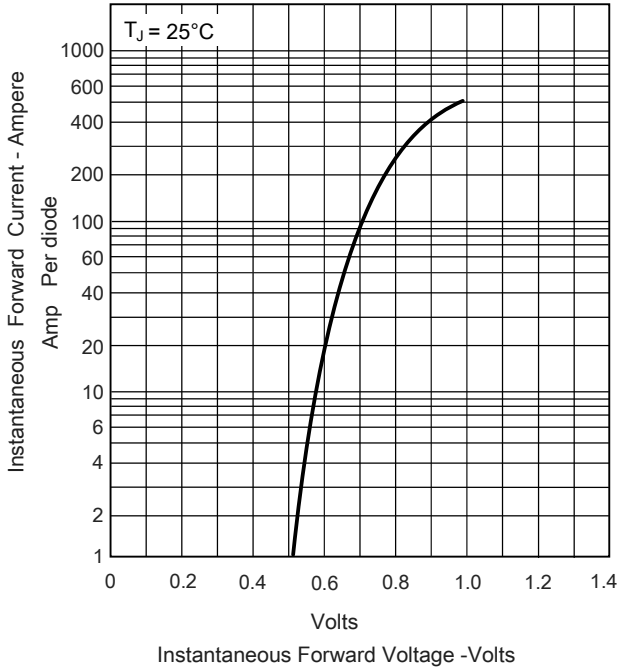
Figure .2-Forward Derating Curve

Average Forward Rectifier Current - Ampere
Amp Per diode

Single Phase,Half Wave
60Hz Resistive or Inductive Load

°C
Case Temperature - °C
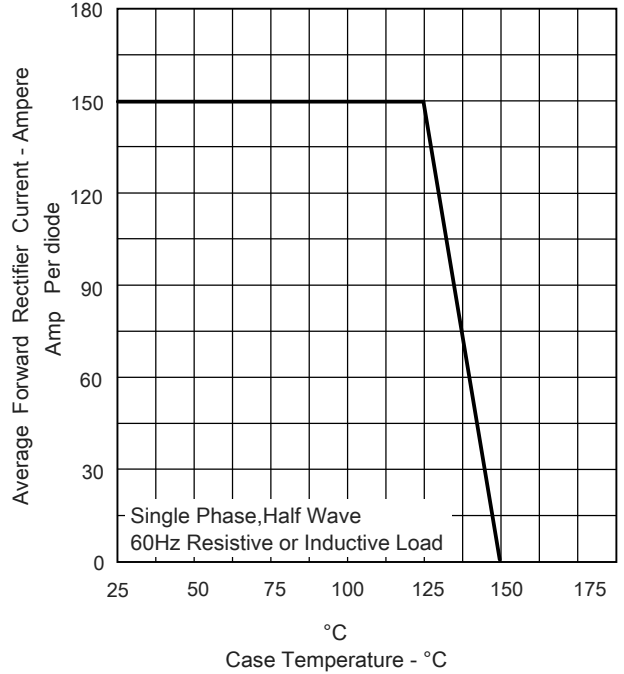
Figure .3- Peak Forward Surge Current

8.3ms Single Half
Sine Wave
JEDEC method $T_J = 25°C$

Peak Forward Surge Current - Ampere
Amps Per diode

Cycles
Number Of Cycles At 60Hz - Cycles
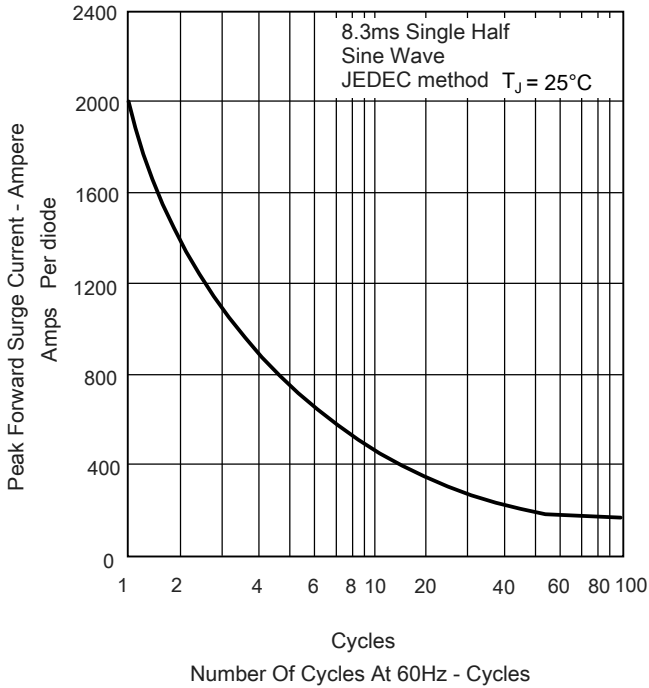
Figure .4 -Typical Reverse Characteristics

Instantaneous Reverse Leakage Current - mA
mA

$T_J = 150°C$

$T_J = 125°C$

$T_J = 25°C$

Volts
Reverse Voltage - Volts (%)
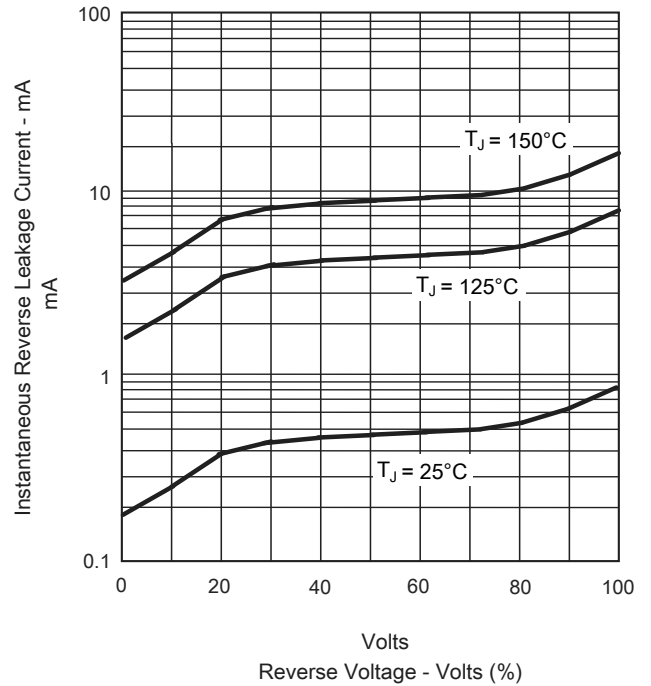
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