



#### **Rectifier module**

V<sub>RRM</sub> - 800 to 1600 V

I<sub>F(AV)</sub>- 100 A

### **FEATURES**

- ♦Low reverse leakage current
- ♦High surge current capability
- ♦ Compliant to RoHS directive 2011/65/EU

### **APPLICATIONS**

- ♦Industrial power supply
- ♦DC supply for PWM inverter
- Supplies for DC power equipment

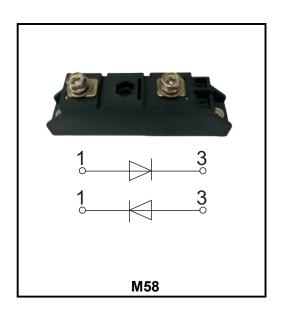


♦Case:M58

Polarity: Polarity symbols being marked on body

♦Mounting torque: 15.0 kgf.cm max

♦Weight: About 90 grams



## Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	MD100-08	MD100-10	MD100-12	MD100-14	MD100-16	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	800	1000	1200	1400	1600	V
Averagerectifiedoutputcurrent with heatsink,T <sub>c</sub> =100℃	I <sub>F(AV)</sub>	100			Α		
Peak surge forward curren,t8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	3200			Α		
Rating for fusing,1ms <t<8.3ms,t<sub>j=25℃, Rating of per diode</t<8.3ms,t<sub>	l²t	32370			A²s		
Junctiontemperat ure	TJ	-40∼+150			°C		
Storagetemperature	Т <sub>STG</sub>	-40∼+125			°C		
Dielectric,strengthterminals to case AC 1 minute	V <sub>dis</sub>	2.5		KV			
Peak Forward Voltage I <sub>F</sub> = 100A	V <sub>F</sub>	1. 3		V			
Peak Reverse Current Tj=25 $^{\circ}$ C $V_R=V_{RRM}$ , Pulse measurement Rating of per diode Tj=125 $^{\circ}$ C	I <sub>R</sub>	0.5 10		mA			
Junction to casethermalresistance, with heatsink	R <sub>θJC</sub>	0.18		°C/W			



#### **Characteristic Curve**

FIG 1. Derating Curve For Output Rectified Current

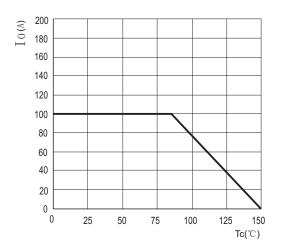


FIG3. Typical Reverse Characteristics Per Bridge Element

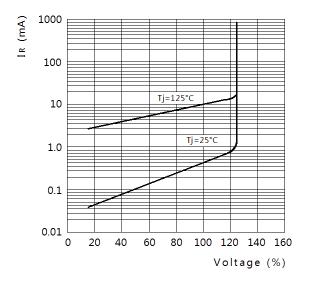


FIG2 .Maximum Non-Repetitive Peak Forward Surge CurrentPer Bridge Element

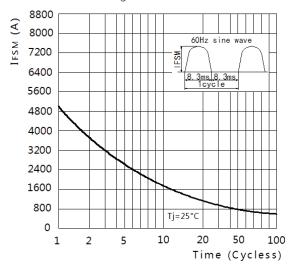
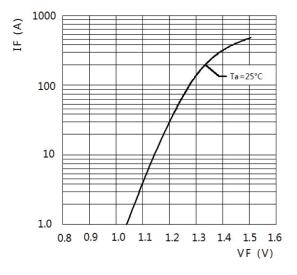


FIG4.Typic al Forward Characteristics Per Bridge Element



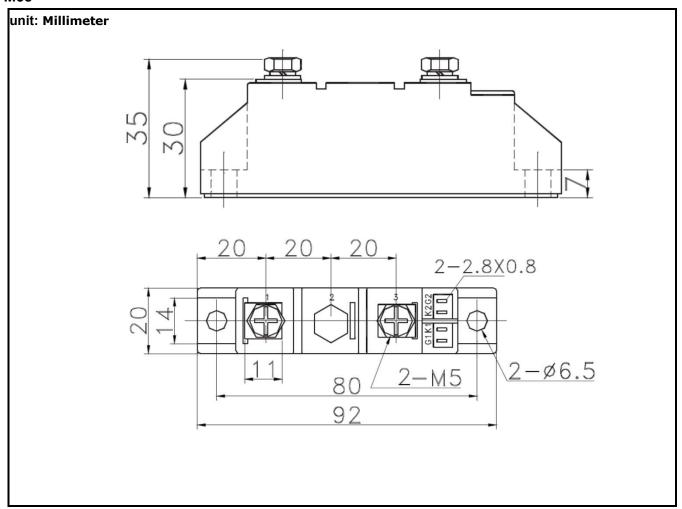


# **Ordering information**

Model name	Package	Unit Weight	Base Quantity
MD100 -XX	M58	-	10pcs/ Box

# **Package Dimensions**

## M58





# **Disclaimer**

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