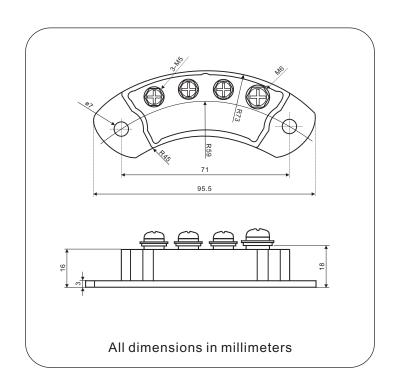


MXG50/MXY50 Series Total

Nell High Power Products

Arc Type Rectifier Module, 50A MXG50-08 Thru MXG50-12 MXY50-08 Thru MXY50-12





FEATURES

- Typical IR less than 2.0 μA
- High surge current capability
- Low thermal resistance
- Compliant to RoHS
- Isolation voltage up to 2500V

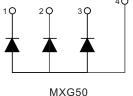
TYPICAL APPLICATIONS

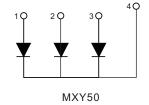
General purpose use in AC/DC bridge full wave rectification for big power generator, field supply for DC motor, industrial automation applications.

ADVANTAGE

- International standard package
 Epoxy meets UL 94 V-O flammability rating
- Small volume, light weight
- Small thermal resistance
- High heat-conduction rate
- Low temperature rise
- Weight:120g (4.2 ozs)







PRIMARY CHARACTERRISTICS					
I _{F(AV)}	50A				
V_{RRM}	800V to 1200V				
I _{FSM}	450A				
I _R	5 μΑ				
V _F	1.30V				
T _{J max} .	150°C				



MXG50/MXY50 Series 阪協

Nell High Power Products

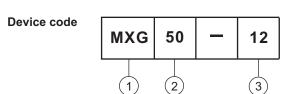
MAJOR RATINGS AND CHARACTERISTICS (T _A = 25°C unless otherwise noted)						
PARAMETER	SYMBOL	MXG50/MXY50				
		08	10	12	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	800	1000	1200	V	
Peak reverse non-repetitive voltage	V _{RSM}	900	1100	1300	V	
Maximum DC blocking voltage	V _{DC}	800	1000	1200	V	
Maximum average forward rectified output current	I _{F(AV)}	50			Α	
Peak forward surge current single sine-wave superimposed on rated load	I _{FSM}	450			А	
Rating (non-repetitive, for t greater than 1 ms and less than 8.3 ms) for fusing	I ² t	1012			A ² s	
RMS isolation voltage from case to leads	V _{ISO}	2500		V		
Operating junction storage temperature range	TJ	-40 to 150			°C	
Storage temperature range	T _{stg}	-40 to 125			°C	

ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted)						
PARAMETER	TEST CONDITIONS	SYMBOL		UNIT		
PARAMETER			08	10	12	TUNII
Maximum instantaneous forward drop per diode	I _F = 157A	V _F		1.30		V
Maximum reverse DC current at rated DC blocking	T _A = 25°C	I-	5			
voltage per diod	T _A = 150°C	IR	3			

THERMAL AND MECHANICAC (T _A = 25°C unless otherwise noted)							
PARAMETER	TEST CONDITIONS	SYMBOL		UNIT			
			08	10	12	UNII	
Typical thermal resistance junction to case	Single-side heat dissipation, sine half wave	R ₀ JC ⁽¹⁾		1.0		°C/W	
Mounting torque ⁽²⁾	A mounting compound is recommended and the torque should be rechecked after a period of 3 hours to allow for the spread of the compound.		2.0 to 2.5			Nm	
Approximate weight				120		g	

Notes

- (1) With heatsink, single side heat dissipation, half sine wave.
- (2) M5 & M6 screws.



- MXG = for common anode
 MXY = for common cathode
 - I_{F(AV)} rating: "50" for 50A - Voltage code: code x 100 = V_{RRM}