

# C50A - C50M

# **50A AUTOMOTIVE RECTIFIER CELL**

### **Features**

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Die Size 220 mil HEX

# B V A C

### **Mechanical Data**

 Case: Protected with Silicon Rubber
 Terminal: Slug, Cu with Ag Plated
 Polarity: Indicated by Large Slug On Cathode Side

Mounting Position: Any

C50					
Dim	Min	Max			
Α	_	7.23			
В	_	6.55			
С	0.75	_			
D	1.0	_			
Е	_	2.2			
All Dimensions in mm					

## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	C50A	C50B	C50D	C50G	C50J	C50K	C50M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	<b>V</b>
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 150°C	lo	50					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	500				А			
Forward Voltage @I <sub>F</sub> = 100A	VFM				1.08				V
Peak Reverse Current At Rated DC Blocking Voltage @T <sub>A</sub> = 25°C		3.0					μΑ		
Typical Thermal Resistance Junction to Ambient	$R_{ heta}$ JA	26				K/W			
Operating and Storage Temperature Range	TJ, TsтG	-40 to +150				°C			

<sup>\*</sup>Glass passivated forms are available upon request

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
C50A	7.23mm Cell	2000 Units/Box
C50B	7.23mm Cell	2000 Units/Box
C50D	7.23mm Cell	2000 Units/Box
C50G	7.23mm Cell	2000 Units/Box
C50J	7.23mm Cell	2000 Units/Box
C50K	7.23mm Cell	2000 Units/Box
C50M	7.23mm Cell	2000 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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