

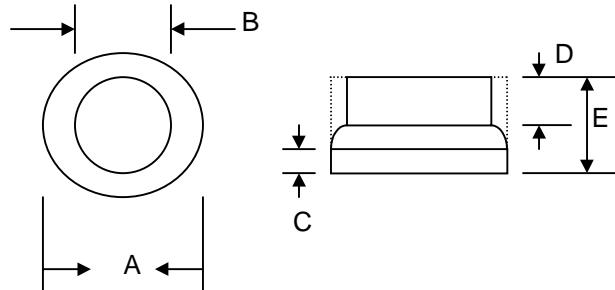


C25A – C25M

25A AUTOMOTIVE RECTIFIER CELL

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Die Size 164 mil HEX



Mechanical Data

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

C25		
Dim	Min	Max
A	—	5.46
B	—	4.82
C	0.75	—
D	1.0	—
E	—	2.2

All Dimensions in mm

Maximum Ratings and Electrical Characteristics $\text{@ } T_A = 25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	C25A	C25B	C25D	C25G	C25J	C25K	C25M	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current $\text{@ } T_C = 150^\circ\text{C}$	I _o				25				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				400				A
Forward Voltage $\text{@ } I_F = 50\text{A}$	V _{FM}				1.08				V
Peak Reverse Current At Rated DC Blocking Voltage $\text{@ } T_A = 25^\circ\text{C}$	I _{RM}				3.0				μA
Typical Thermal Resistance Junction to Ambient	R _{θJA}				26				K/W
Operating and Storage Temperature Range	T _J , T _{STG}				-40 to +150				$^\circ\text{C}$

*Glass passivated forms are available upon request

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
C25A	5.5mm Cell	10000 Units/Box
C25B	5.5mm Cell	10000 Units/Box
C25D	5.5mm Cell	10000 Units/Box
C25G	5.5mm Cell	10000 Units/Box
C25J	5.5mm Cell	10000 Units/Box
C25K	5.5mm Cell	10000 Units/Box
C25M	5.5mm Cell	10000 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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