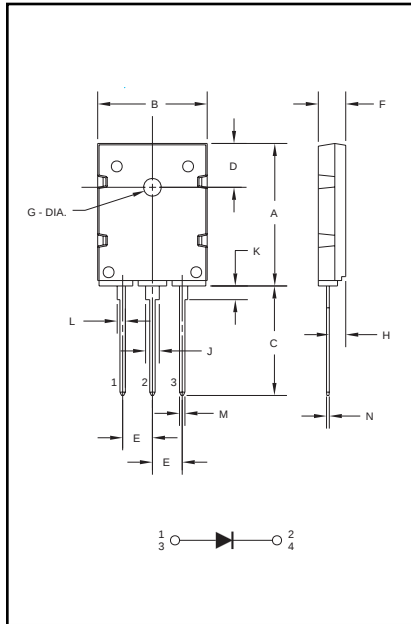
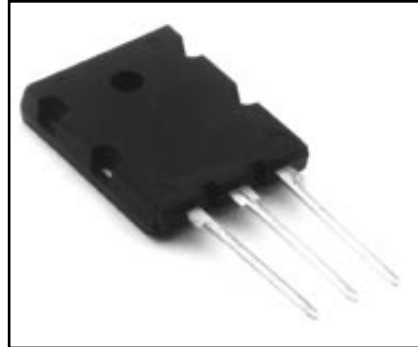


Super Fast Recovery Single Diode 25 Amperes/1200 Volts



Outline Drawing

Dimension	Inches	Millimeters
A	1.02±0.02	26.0±0.5
B	0.81 Max.	20.5 Max.
C	0.79 Min.	20.0 Min.
D	0.24±0.008	6.0±0.2
E	0.214±0.012	5.45±0.3
F	0.20±0.012	5.0±0.3
G	0.214±0.012 Dia.	3.2±0.2
H	0.12±0.012	3.0±0.3
J	0.10±0.012	2.5±0.3
K	0.10	2.5
L	0.08±0.012	2.0±0.3
M	0.04±0.008	1.0±0.2
N	0.02±0.008	0.6±0.2



RM25HG-24S
Super Fast Recovery
Single Diode
25 Amperes/1200 Volts

Description:

Powerex Super Fast Recovery Diodes are designed for use in applications requiring fast switching.

Features:

- ☐ Non-Isolated Package
- ☐ Planar Chips
- ☐ $t_{rr} = 300$ ns Max.

Applications:

- ☐ Snubber Circuits
- ☐ Switching Power Supplies
- ☐ Free Wheeling

Ordering Information:

Select the complete eight digit part number you desire from the table below.

Example: RM25HG-24S is a 1200 Volt, 25 Ampere Super Fast Recovery Single Diode.

Type	Current Rating Amperes	Voltage Volts (x50)
RM	25	24

RM25HG-24S

Super Fast Recovery

Single Diode

25 Amperes/1200 Volts

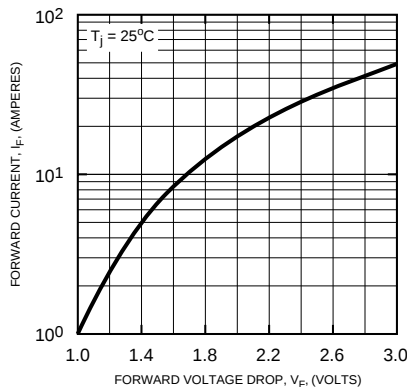
Absolute Maximum Ratings

Characteristics	Symbol	Conditions	RM25HG-24S	Units
Peak Reverse Blocking Voltage	V_{RRM}	—	1200	Volts
DC Reverse Blocking Voltage	$V_{R(DC)}$	—	960	Volts
DC Current, $T_C = 80^\circ\text{C}$ (Resistive Load)	$I_{F(DC)}$	—	25	Amperes
Peak Half-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	I_{FSM}	—	500	Amperes
I^2t for Fusing, (8.3 milliseconds)	I^2t	—	—	A^2sec
Storage Temperature	T_{STG}	—	-40 to 125	$^\circ\text{C}$
Operating Temperature	T_j	—	-40 to 150	$^\circ\text{C}$
Maximum Mounting Torque M3 Mounting Screw	—	—	10	kg.-cm.
Weight (Typical)	—	—	10	Grams

Electrical and Thermal Characteristics, $T_j = 25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	Test Conditions	RM25HG-24S	Units
Blocking State Maximums				
Reverse Leakage Current, Peak	I_{RRM}	$T_j = 125^\circ\text{C}$, $V_{RRM} = \text{Rated}$	1	mA
	—	$T_j = 25^\circ\text{C}$, $V_{RRM} = \text{Rated}$	0.1	mA
Conducting State Maximums				
Peak On-State Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 100\text{A}$	4.0	Volts
Switching Minimums				
Reverse Recovery Time	t_{rr}	$T_j = 25^\circ\text{C}$, $I_{FM} = 100\text{A}$	0.3	μs
Reverse Recovery Charge	Q_{rr}	$di/dt = -500\text{A}/\mu\text{s}$, $V_R = 600\text{V}$	—	μC
Lead Strength	—	Tension Load: 2.5 kg.	30	s
	—	Bending Load: 1 kg. Bent to 90°	2	Times
Thermal Maximums				
Thermal Resistance, Junction-to-Case	$R_{\theta(J-C)}$	Diode	0.5	$^\circ\text{C}/\text{Watt}$
Contact Thermal Resistance, Case-to-Fin	$R_{\theta(C-S)}$	Case to Fin, Thermal Grease Applied	0.5	$^\circ\text{C}/\text{Watt}$

FORWARD CHARACTERISTICS
(TYPICAL)



REVERSE RECOVERY CHARACTERISTICS
(TYPICAL)

