



SUPER FAST DIODE MODULE TYPE 450A

Features

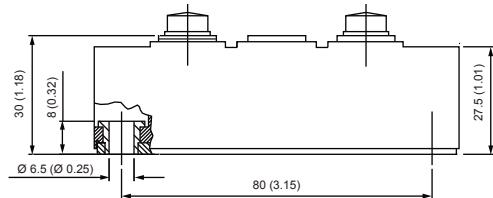
High Surge Capability

Type 1200V V_{RRM}

Isolation Type Package

Electrically Isolation base plate

Dimensions in mm (1 mm = 0.0394")

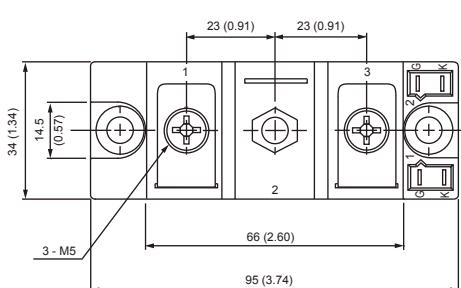


Maximum Ratings

Operating Temperature : -55°C to +175°C

Storage Temperature : -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURIDK450120	1200V	840V	1200V



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	450A	$T_c = 100^\circ C$
Peak Forward Surge Current	I_{FSM}	9000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	V_F	1.95V 2.15V	$I_{FM}=300A; T_J = 25^\circ C$ $I_{FM}=520A; T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage*	I_R	$30\ \mu A$ 10mA	$T_J = 25^\circ C$ $T_J = 150^\circ C$
Maximum Reverse Recovery Time	T_{rr}	350ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Isolation Voltage	V_{isol}	3000V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case	$R_{\theta j c}$	0.075°C/W 0.150°C/W	Per pkg Per leg

*Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%



MURIDK450120

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Figure .1- Typical Forward Characteristics

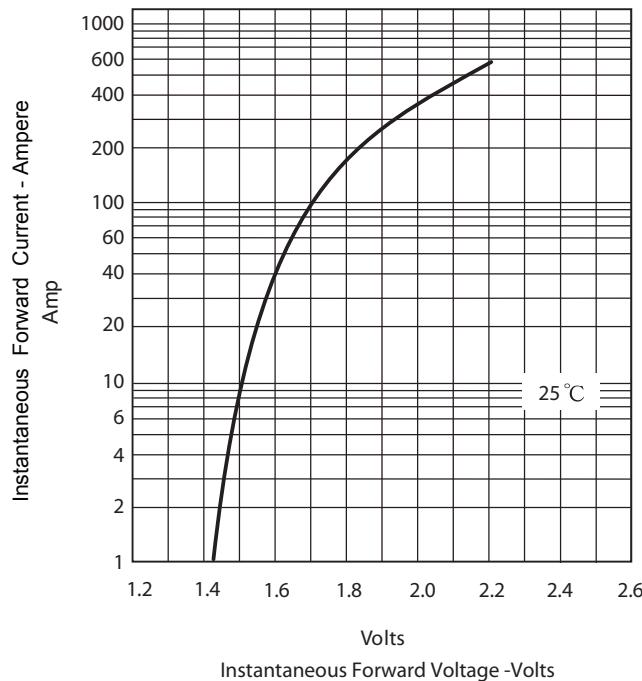


Figure .2- Forward Derating Curve

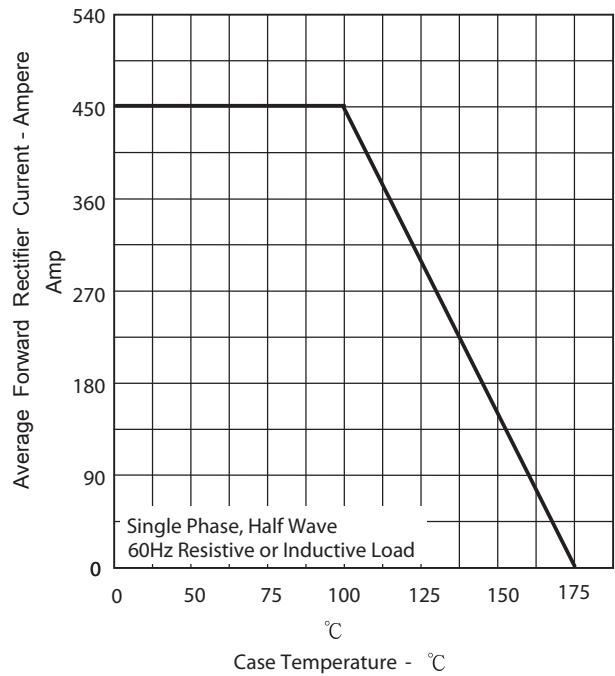


Figure .3- Peak Forward Surge Current

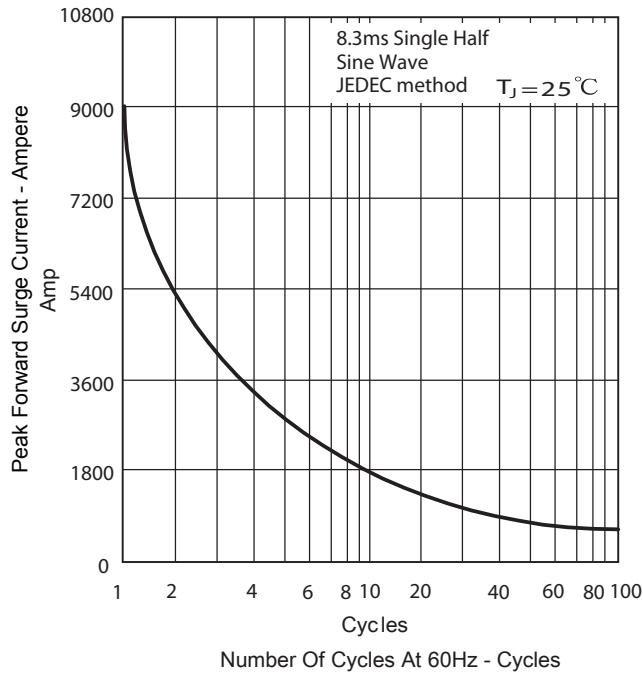


Figure .4 -Typical Reverse Characteristics

