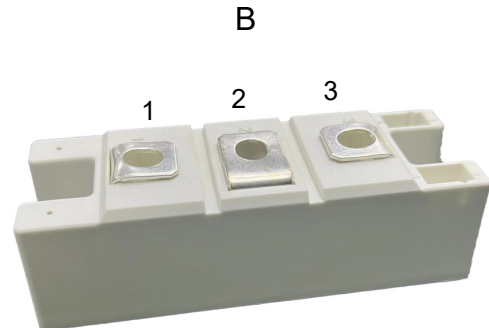


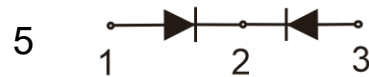
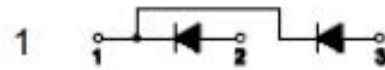
Features

- Ultrafast Reverse Recovery Time
- Soft Reverse Recovery Characteristics
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package



Typical Applications

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- Power Factor Correction (PFC) Circuit



ABSOLUTE MAXIMUM RATINGS

$T_C=25^{\circ}\text{C}$ unless otherwise specified

Parameters	Symbol	Test conditions	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}		1200	V
Maximum Continuous forward current, per diode	I_F	$T_C=110^{\circ}\text{C}$	150	A
Single pulse forward current, per diode	I_{FSM}	$T_J=45^{\circ}\text{C}, t=10\text{ms}, 50\text{Hz}, \text{Sine}$	1500	A
RMS isolation voltage	V_{ISO}	AC, $t=1\text{min}$	3000	V
Maximum junction temperature	T_J		150	$^{\circ}\text{C}$
Maximum reverse recovery time	T_{rr}	$I_F=0.5\text{A}, I_R=1\text{A}, I_{RR}=0.25\text{A}$	160	nS
Storage temperture	T_{stg}		-40 ~ 125	$^{\circ}\text{C}$
Power Dissipation	P_D		568	W
Thermal Resistance	$R_{\theta JC}$	Junction-to-Case	0.22	$^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS

$T_C=25^{\circ}\text{C}$ unless otherwise specified

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	V_{BR}	$I_R=100\mu\text{A}$	1200	-	-	V
Forward voltage	V_F	$I_F=150\text{A}$ $T_J=25^{\circ}\text{C}$		1.6	2.0	
		$I_F=150\text{A}$ $T_J=125^{\circ}\text{C}$		-	1.9	
Reverse leakage current	I_R	$V_R=V_{Rrated}$ $T_J=25^{\circ}\text{C}$		-	20	μA
		$V_R=V_{Rrated}$ $T_J=150^{\circ}\text{C}$		-	10	mA

FIG1-TYPICAL FORWARD CHARACTERISTICS

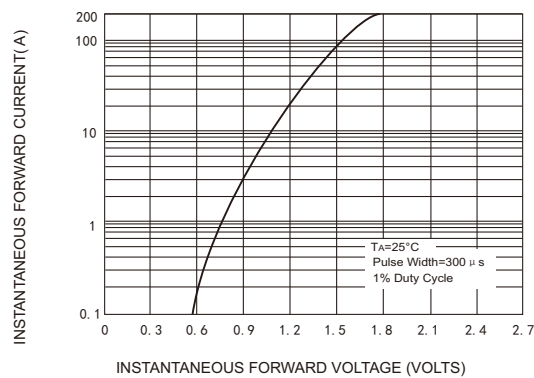
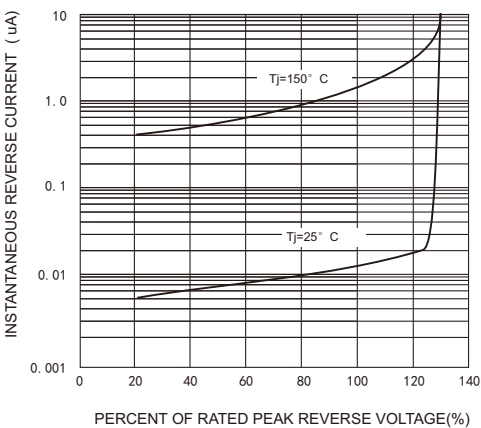
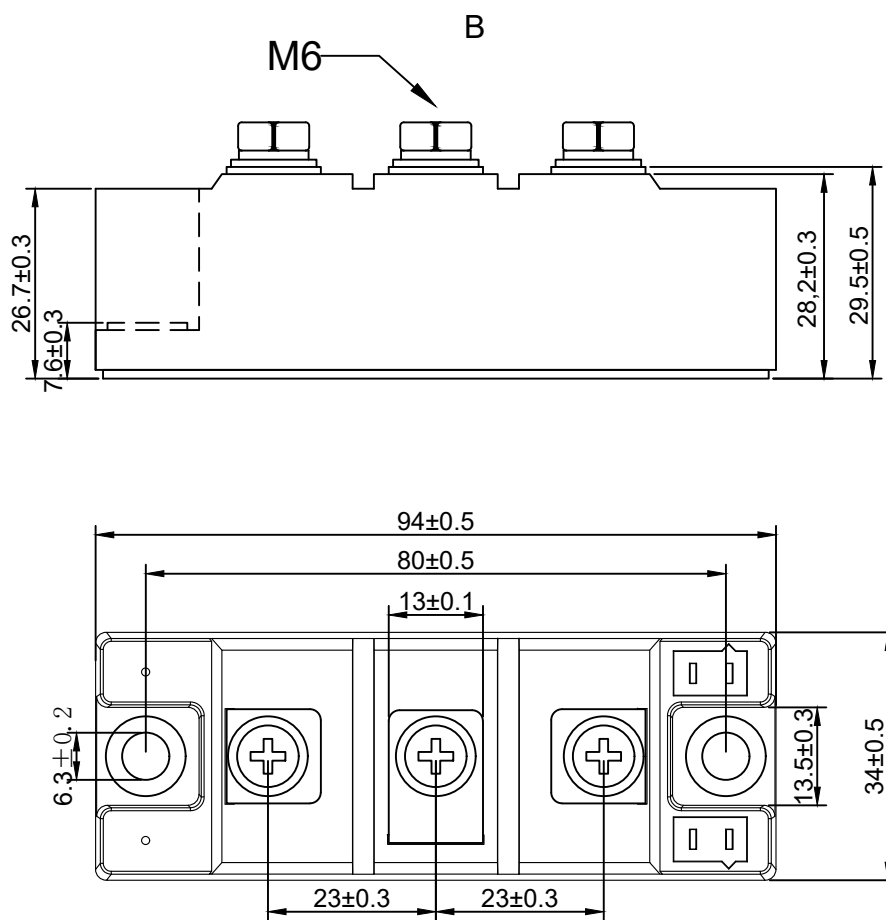


FIG.2-TYPICAL REVERSE CHARACTERISTICS



Package Outline Information



Dimensions in mm

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