

产品规格书

Specifcation of products

产品名称:肖特基二极管

产品型号: MBK600U1K1

浙江世菱半导体有限公司
ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

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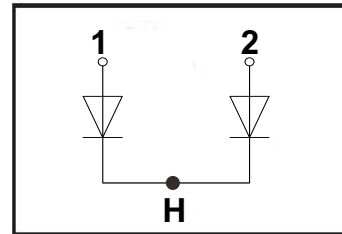
拟制	审核	核准
林益龙	陈一凡	曹剑龙

PRODUCT FEATURES

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

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

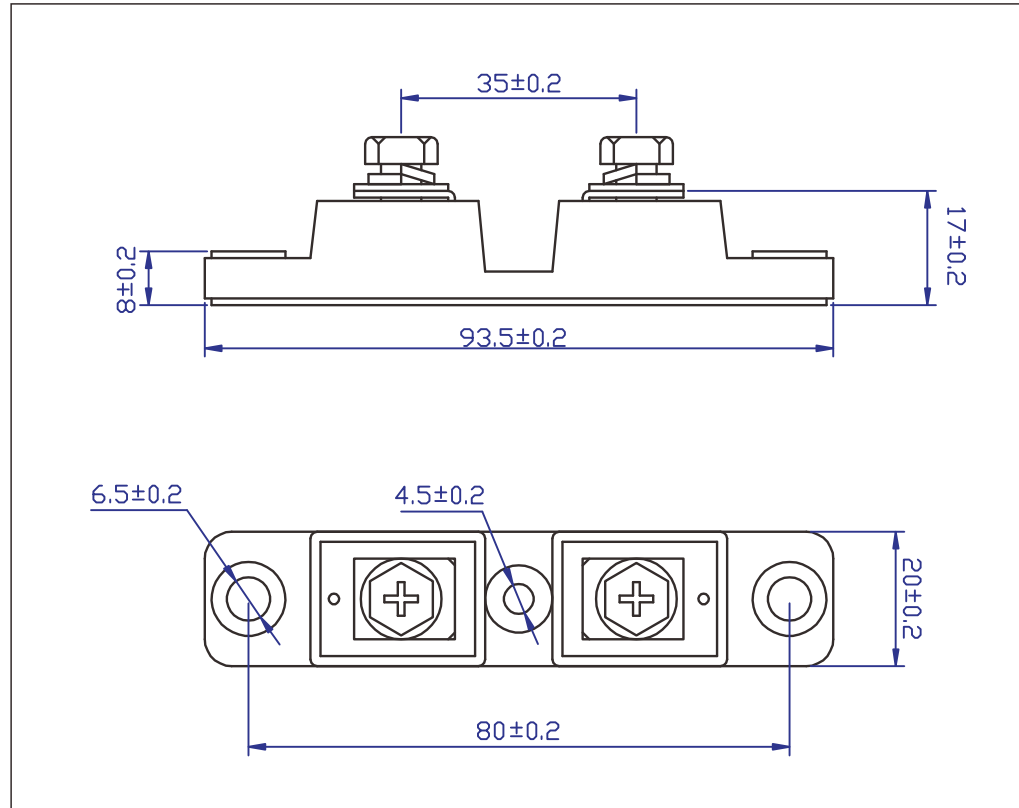
Symbol	Parameter	Test Conditions	Values	Unit
V_R	Maximum D.C. Reverse Voltage		100	V
V_{RRM}	Maximum Repetitive Reverse Voltage		100	V
$I_{F(AV)}$	Average Forward Current	$T_c=100^{\circ}\text{C}$, Per Diode	300	A
		$T_c=100^{\circ}\text{C}$, Per Moudle	600	A
		$T_c=100^{\circ}\text{C}$, 20KHz, Per Moudle	380	A
$I_{F(RMS)}$	RMS Forward Current	$T_c=100^{\circ}\text{C}$, Per Diode	380	A
I_{FSM}	Non-Repetitive Surge Forward Current	1/2 Cycle, 60Hz, Sine	3000	A
I^2t	I^2t (For Fusing)	$T_J=45^{\circ}\text{C}$, $t=8.3\text{ms}$, 60Hz, Sine	16800	A^2s
P_D	Power Dissipation		625	W
T_J	Junction Temperature		-40 to +150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range		-40 to +125	$^{\circ}\text{C}$
Torque	Module-to-Sink	Recommended (M6)	3~5.0	Nm
Torque	Module Electrodes	Recommended (M6)	3~5.0	Nm
$R_{\theta JC}$	Thermal Resistance	Junction-to-Case	0.20	$^{\circ}\text{C}/\text{W}$
Weight			70	g

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{RM}	Reverse Leakage Current	V _R =100V	--	--	0.5	mA
		V _R =100V, T _J =125℃	--	--	10	mA
V _F	Forward Voltage	I _F =300A	--	0.65	--	V
		I _F =300A, T _J =125℃	--	0.55	--	V

Package Outline



Dimensions (mm)