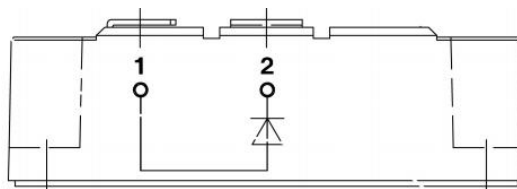


FEATURES

- High surge current capability
- Designed and qualified for industrial and consumer level
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Field supply for DC motors
- DC charging pile
- Lithium battery anti reverse
- DC motor excitation power supply

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE		UNIT
V_{RRM}	Repetitive Peak Reverse Voltage	V_{RRM} tp=10ms, $V_{RSM}=V_{RRM}+200V$	1200		V
$I_{F(AV)}$	Average Forward Current	$T_C=100^{\circ}C$, 180° conduction, half sine wave	600		A
I_{FSM}	Surge Forward Current	$t=10m$, half sine wave, $V_R=0.6V_{RRM}$	19		kA
I^2t	I^2t for fusing		1850		A^2s*10^3
V_{iso}	isolation voltage	50Hz, R.M.S, $t=1min$, liso: 1mA(max)	3000		v
T_{stg}	Storage Temperature		-40~125		$^{\circ}C$

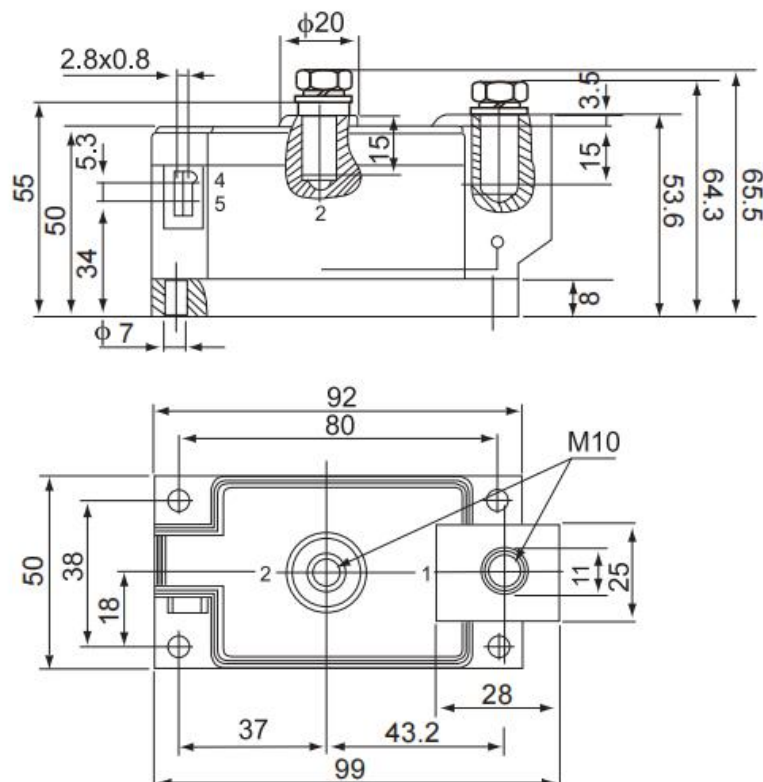
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.23	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	$I_{FM}=1800A$, $T_J=25^{\circ}C$, $t_p=400\mu s$	1.3	V
I_R	Maximum Instantaneous Reverse Current	$V_{RM}=V_{RRM}$	10	mA

PACKAGE OUTLINE





SKKE600/12

Rectifier Module

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.