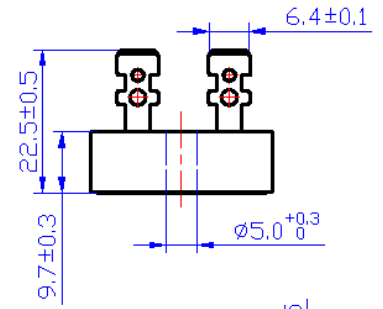
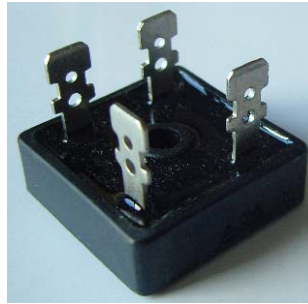


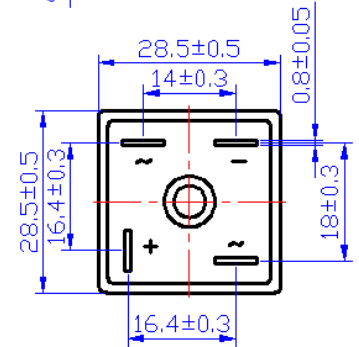
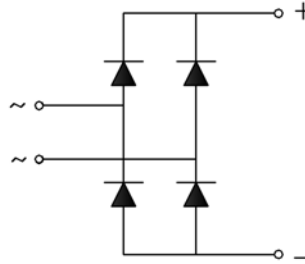
Feature

- Low forward voltage drop
- Isolation voltage 2000V ~
- Small volume, light weight
- Low thermal resistance, high heat-conductivity, low temperature rise
- UL certification No.E304417



Application

- Power supply for DC power device
- Input rectifier for PWM converter
- Inverter welding machine



■ Maximum value

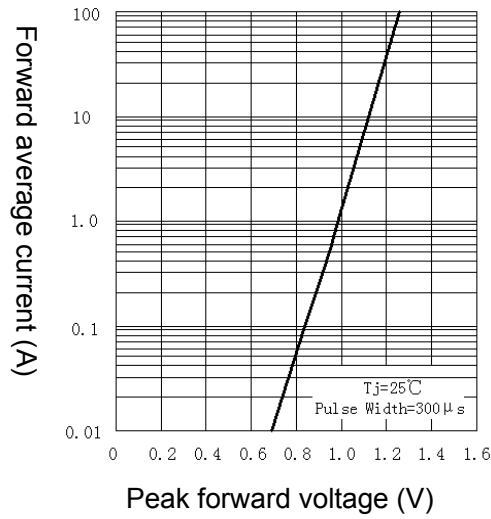
Symbol	Parameter	Rating			Unit
		BR			
		1506	1508	1510	
V_{RRM}	Reverse peak repetitive voltage	600	800	1000	V
V_{RSM}	Reverse peak non-repetitive voltage	700	900	1100	V

Symbol	Parameter	Test condition	Rating	Unit
$I_{F(AV)}$	Forward average current	$T_C=78^\circ\text{C}$	15	A
I_{FSM}	Forward surge current	sin, 50Hz, $t=10\text{ms}$, $T_j=25^\circ\text{C}$	180	A
I^2t	I^2t value		162	A^2S
V_{ISO}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA}(\text{max})$	2000	V
T_j	Operating junction temperature		-40 to +150	$^\circ\text{C}$
T_{jm}	Rated junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-40 to +125	$^\circ\text{C}$
M_d	Mounting torque M5		2	N·m
W_t	Weight		20	g

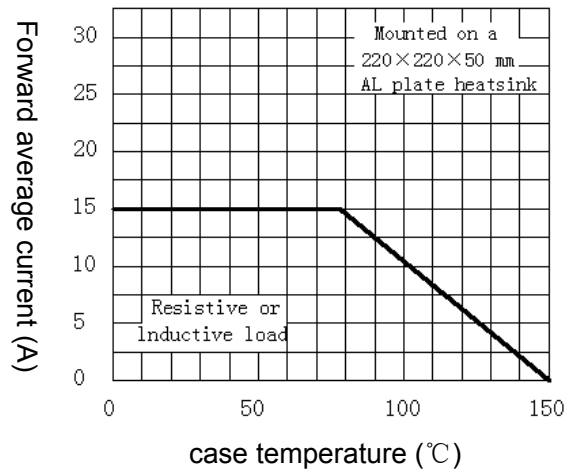
■ Electrical characteristics

Symbol	Parameter	Test condition	Max value	Unit
I_{RRM}	Peak reverse repetitive current	$V_R=V_{RRM}$, $T_j=25^\circ\text{C}$	5	μA
		$V_R=V_{RRM}$, $T_j=150^\circ\text{C}$	3	mA
V_{FM}	Peak forward voltage	$I_{FM}=7.5\text{A}$, $T_j=25^\circ\text{C}$	1.1	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-sided heat dissipation, sine half-wave	1.2	$^\circ\text{C/W}$

Forward characteristics curve



Case temperature vs forward average current



Forward surge current vs cycles

