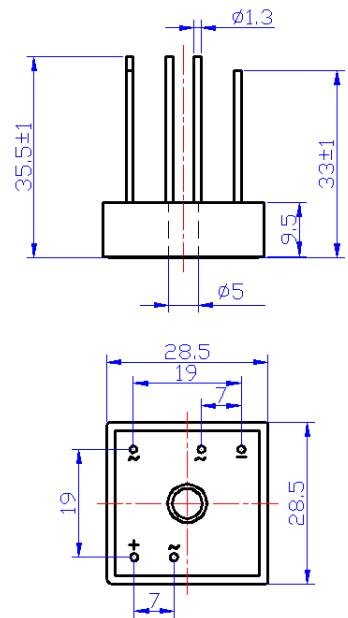
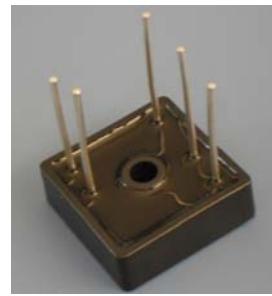
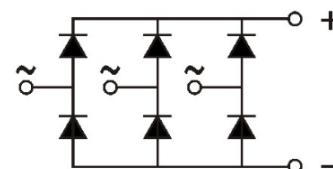


**Feature**

- Glass-passivated chip
- Low forward voltage drop
- Isolation voltage 2500V ~

**Application**

- Power supply for DC power device
- Input rectifier for PWM converter
- Power supply for DC device

**Advantage**

- Easy mounting
- Small volume, light weight
- Low thermal resistance, high heat-conduction rate  
low temperature rise

**■ Maximum value**

Symbol	Parameter	Rating		Unit
		MT3512W		
$V_{RRM}$	Peak reverse repetitive voltage	1200		V
$V_{RSM}$	Peak reverse non-repetitive voltage	1300		V

Symbol	Parameter	Test condition	Rating	Unit
$I_{F(AV)}$	Forward average current	180° sine half-wave 50HZ single-sided heat dissipation $T_C=55^\circ\text{C}$	35	A
$I_{FSM}$	Forward surge current	$t=10\text{ms}, 50\text{HZ}, \sin, T_{jm}$	400	A
$I^2t$	$I^2t$ value		660	$\text{A}^2\text{s}$
$V_{ISO}$	Isolation voltage	AC one minute	2500	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	$\text{N}\cdot\text{m}$
$W_t$	Weight		21	g

**■ Electrical characteristics**

Symbol	Parameter	Test condition	Rating	Unit
$I_{RRM}$	Peak reverse repetitive current	$V_R=V_{RRM}$ , sine half-wave,, $T_j=25^\circ\text{C}$	5	$\mu\text{A}$
		$V_R=V_{RRM}$ , sine half-wave,, $T_j=150^\circ\text{C}$	3	mA
$V_{FM}$	Peak forward voltage	$I_{FM}=17.5\text{A}$ , $T_j=25^\circ\text{C}$	1.1	V
$R_{th(j-C)}$	Thermal impedance (junction-case)	Single-sided heat dissipation, sine half-wave	1.4	$^\circ\text{C}/\text{W}$