

FAST RECOVERY DIODE (Capsule Version) | 快恢复二极管(平板式)

Features

- All diffuse technics
- Short recovery time
- Very small anti recovery charge
- Fast soft recovery features
- Ceramic disc type seal
- Bifacial cooled

Typical Applications

- Motor control
- Induction warm-up
- UPS power
- Charger
- Welder

Explanation

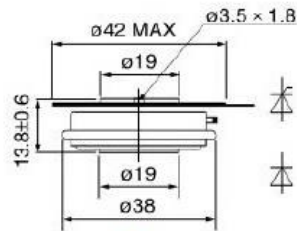
- $I^2t = I_{FSM}^2 \times t_w / 2$; t_w = Half sine wave current, when at 50Hz,
 $I^2t = 0.005 I_{FSM}^2 (A^2S)_{FSM}$
- When at 60Hz, $I_{FSM}(8.3ms) = I_{FSM}(10ms) \times 1.066$, $T_r = T_{jm}$
- $I^2t(8.3ms) = I^2t(10ms) \times 0.943$, $T_r = T_{jm}$



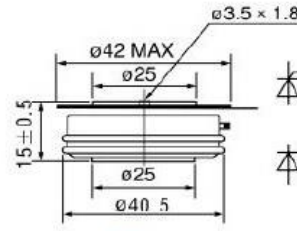
Type	V_{RRM}	$I_{F(AV)}$	t_{rr}	Q_{rr}	I_{FSM}	I_{RRM}	V_{FM}/I_{FM}	$R_{TH(FH)}$	T_{jm}	M^2	Outline
		$T_{HE55}^{\circ}C$	$100^{\circ}C$		10ms		$25^{\circ}C$				
	V	A	μs	μC	kA	mA	V/A	$^{\circ}C/W$	$^{\circ}C$	KN	
ZK200C	200-3000	200	2	70	2.7	16	2.2/600	0.090	150	3.3-5.5	E1/E2
ZK300C	200-3000	300	3	100	4.1	30	2.4/900	0.065	150	5.3-10	E2
ZK400C	200-3000	400	3	100	5.4	40	2.4/1200	0.040	150	10-20	E2/E3/E5
ZK500C	200-3000	500	3	120	8	40	2.4/1800	0.033	150	10-20	E2/E3/E5
ZK800C	200-3000	800	3	130	10	40	2.6/2400	0.033	150	10-20	E5/E6/E8
ZK1000C	200-3000	1000	4	150	13	50	2.6/3000	0.030	150	15-20	E8

Outline table

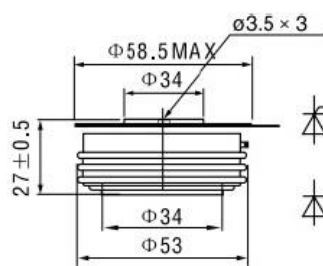
(Dimension in mm)



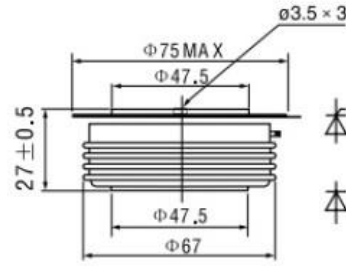
E1



E2



E5



E8