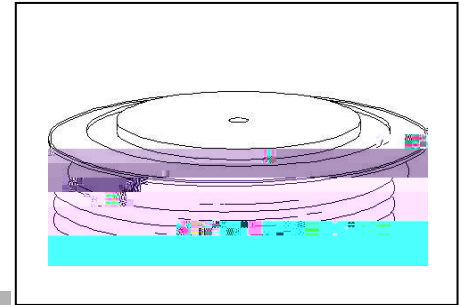
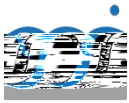




Device Type	V_{RRM} (1)	V_{RSM} (1)
ZK720-10	1000	1100
ZK720-12	1200	1300
ZK720-14	1400	1500
ZK720-16	1600	1700
ZK720-18	1800	1900

V_{RRM} = Repetitive peak reverse voltage

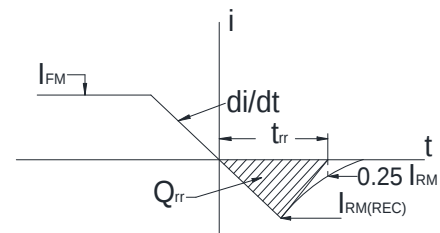
V_{RSM} = Non repetitive peak reverse voltage (2)

Repetitive peak reverse leakage current	I_{RRM}	15 mA 35 mA (3)
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Notes:

All ratings are specified for $T_j = 25^\circ\text{C}$, unless otherwise stated

- (1) All voltage ratings are specified for an applied 50Hz/60Hz sinusoidal waveform over the temperature range -40°C to $+125^\circ\text{C}$.
- (2) 10 msec. max. pulse width
- (3) Maximum value for $T_j = 125^\circ\text{C}$.
- (4) See parameter definition below :



reverse recovery characteristic

Average forward current	$I_{F(AV)}$		720		A	Sinewave 180° , $T_c = 70$
RMS forward current	I_{FRMS}		1109		A	
Peak one cycle surge (non repetitive) current	I_{FSM}		8640		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, $T_j = 125$
I square t	I^2t		37.3×10^4		A^2s	8.3 msec and 10.0 msec
Peak forward voltage	V_{FM}		2.40		V	$I_{FM} = 2400A$; Duty cycle 0.01%
Threshold voltage	V_{FO}		1.30		V	$T_j = 125^\circ\text{C}$, $I = 0.5 I_{F(AV)}$ to $1.5 I_{F(AV)}$
Slope resistance	r_F		0.37		m Ω	$T_j = 125^\circ\text{C}$, $I = 0.5 I_{F(AV)}$ to $1.5 I_{F(AV)}$
Reverse Recovery Current (4)	$I_{RM(REC)}$		*		A	$I_{FM} = 1000 A$; $dI_F/dt = 10 A/s$; T_{jmax}
Reverse Recovery Charge (4)	Q_{rr}		*		μC	$I_{FM} = 1000 A$; $dI_F/dt = 10 A/s$; T_{jmax}
Reverse Recovery Time (4)	t_{rr}		5		μs	$I_{FM} = 1000 A$; $dI_F/dt = 10 A/s$; T_{jmax}

