

Rectifier Diode Module

Type :YZPST- SKKD162/16E

Symbol	Condition	Ratings	Unit
V_{RRM}	$T_j = 125^{\circ}\text{C}$	1600	V
V_{RSM}	$T_j = 125^{\circ}\text{C}$	1700	V
$I_{F(RMS)}$	$T_c = 85^{\circ}\text{C}$	310	A
$I_{F(AV)}$	$T_c = 85^{\circ}\text{C}$	195	A
I_{FSM}	50 Hz, 60% V_{RRM} reapplied, $T_j = 25^{\circ}\text{C} / 150^{\circ}\text{C}$	6000 / 5000	A
I^2t	50 Hz, 60% V_{RRM} reapplied, $T_j = 25^{\circ}\text{C} / 150^{\circ}\text{C}$	180 / 125	KA^2S
T_j		-40 ~ +135	$^{\circ}\text{C}$
T_{stg}		-40 ~ +135	$^{\circ}\text{C}$
V_{isol}	a.c.50Hz; r.m.s.; 1s/ 1min.	3600/3000	V
M	To teatsink; $\pm 15\%$	5	Nm
	To terminals; $\pm 15\%$	5	Nm
W		165	g
Symbol	Condition	Ratings	Unit
I_{RRM}	Up to V_{RRM} , $T_j = 135^{\circ}\text{C}$	9	mA
V_F	$I_F = 500\text{A}$, $T_j = 25^{\circ}\text{C}$	1.5	V
$V_{(TO)}$	$T_j = 135^{\circ}\text{C}$	0.85	V
r_T	$T_j = 135^{\circ}\text{C}$	1.2	$\text{m}\Omega$
Q_{rr}	$T_j = 125^{\circ}\text{C}$	-	μC
T_{rr}	$T_j = 125^{\circ}\text{C}$	-	ns
$R_{th(j-c)}$	Per Module	0.18	K / W
$R_{th(c-s)}$	Per Module	0.1	K / W

Case Outline And Dimensions

Features:

- Heat transfer through aluminium nitrogen ceramic isolated metal baseplate
- precious metal pressure contacts for high reliability.

Applications:

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- Free-wheeling diodes

