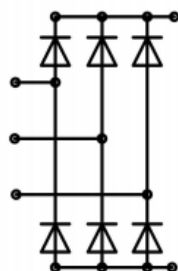
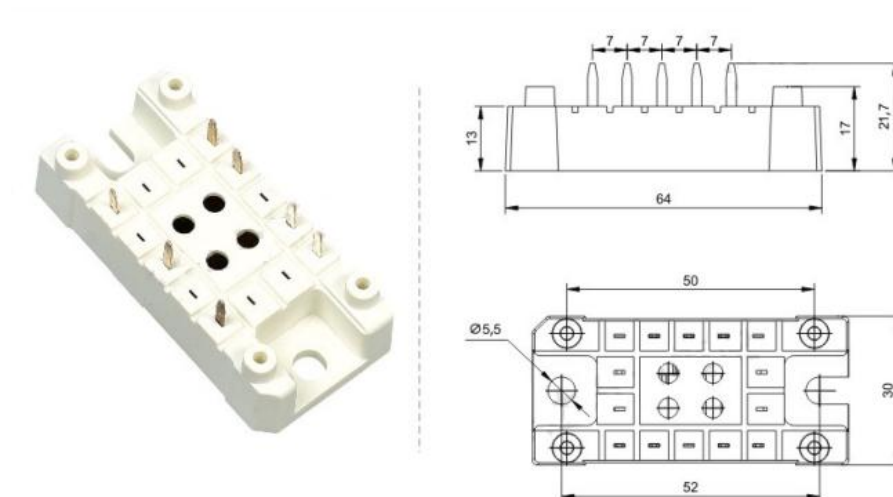


POWER BRIDGE RECTIFIERS

TYPE : YZPST-SKD83/16

Parameter	Symbol	Conditions	Values	Units
Repetitive Peak Off-State Voltage	V_{DRM}		-	V
Non Repetitive Peak Off-State Voltage	V_{DSM}		-	
Repetitive Peak Reverse Voltage	V_{RRM}		1600	V
Non Repetitive Peak Reverse Voltage	V_{RSM}		1700	V
Average Rectified Output Current	$I_{\text{O(AV)}}$	$T_{\text{C}}=95^{\circ}\text{C}$	83	A
Surge Forward Current	I_{FSM}	50Hz; Half Sine Wave, 1Pulse, Non-Repetitive $T_{\text{J}}=150^{\circ}\text{C}$	560	A
I Squared t	I^2t	2msec to 10msec $T_{\text{J}}=150^{\circ}\text{C}$	1.57	KA^2s
Surge On-State Current	I_{TSM}	50Hz; Half Sine Wave, 1Pulse, Non-Repetitive	-	A
I Squared t	I^2t	2msec to 10msec	-	KA^2s
Peak Forward Voltage	V_{FM}	$T_{\text{J}}=25^{\circ}\text{C}; I_{\text{F}}=80\text{A}$	1.45	V
Peak On-State Voltage	V_{TM}		-	
Threshold voltage	$V_{\text{F(TO)}}$	$T_{\text{J}}=150^{\circ}\text{C}$	0.8	V
Forward slope resistance	r_{F}	$T_{\text{J}}=150^{\circ}\text{C}$	7.5	$\text{m}\Omega$
Peak Reverse Current	I_{RM}	$V_{\text{RM}}=V_{\text{RRM}}, T_{\text{J}}=125^{\circ}\text{C}$	-	mA
Critical Rate of Turned-On Current	di/dt	$V_{\text{D}}=2/3V_{\text{DRM}}, I_{\text{TM}}=2\cdot I_{\text{O}}, T_{\text{J}}=125^{\circ}\text{C}$ $I_{\text{G}}=200\text{mA}, di_{\text{G}}/dt=0.2\text{A}/\mu\text{s}$	-	$\text{A}/\mu\text{s}$
Critical Rate of Rise of Off-State Voltage	dv/dt	$V_{\text{D}}=2/3V_{\text{DRM}}, T_{\text{J}}=125^{\circ}\text{C}$	-	$\text{V}/\mu\text{s}$
Gate Current to Trigger	I_{GT}	$V_{\text{D}}=6\text{V}, I_{\text{T}}=1\text{A}, T_{\text{J}}=25^{\circ}\text{C}$	-	mA
Gate Voltage to Trigger	V_{GT}		-	V
Holding Current	I_{H}		-	mA
Thermal Resistance	$R_{\text{th(j-c)}}$	Junction to Case	1.4	K/W
	$R_{\text{th(c-f)}}$	Case to Fin	2.83	K/W
	T_{vj}		-40~+150	$^{\circ}\text{C}$
	T_{stg}		-40~+125	$^{\circ}\text{C}$
	V_{isol}	a.c. 50Hz; r.m.s.; 1min./1S	3000/3600	V
Mounting torque	M	Case mounting Terminals	2	N.m

OUTLINE DRAWING (Dimensions in mm)



SKD