

Rectifier Diode Modules

SKKD 353/18

Features*

- Industrial standard package
- Electrically insulated base plate
- Heat transfer through aluminum oxide ceramic insulated metal base plate
- Chip soldered on direct copper bonded Al₂O₃ ceramic

 M_{s}

Mt

a w to heatsink M5

to terminals M8

• UL recognition, file no. E63532

Absolute	Maximum Rating	S	I			
Symbol	Conditions	Values			Unit	
Recitifier	Diode					
I _{FAV}	sin. 180°	T _c = 85 °C	350			Α
	T _{j max} = 130 °C	T _c = 100 °C	260			Α
I _{FRMS}	continuous operation		580			Α
I _{FSM}	– 10 ms	T _j = 25 °C	10500			Α
		T _j = 130 °C	9500			Α
i ² t	10 ms	T _j = 25 °C	551250			A ² s
		T _j = 130 °C	451250			A ² s
V _{RSM}	T _j = 25 °C		1900			V
V _{RRM}	T _j = 25 °C		1800			V
Tj			-40 130			°C
Module						
T _{stg}			-40 125			°C
V _{isol}	a.c.; 50 Hz; r.m.s.	1 min	3000			V
		1 s	3600			V
Characte	eristics					
Symbol	Symbol Conditions			typ.	max.	Unit
Diode						
V _F	T _j = 25 °C, I _F = 750 A				1.38	V
V _{F0}	T _j = 130 °C				0.84	V
r _F	T _j = 130 °C				0.67	mΩ
I _R	$T_j = 130 \ ^\circ C, \ V_{RD} = V_{RRM}$				15	mA
$R_{th(j-c)}$	- cont.	per chip			0.09	K/W
		per module			0.045	K/W
R _{th(j-c)}	sin. 180°	per chip			0.092	K/W
		per module			0.046	K/W
Module		·				•
R _{th(c-s)}	chip			0.08		K/W
	module			0.04		K/W
			4			1

4.25

7.65

5.75

10.35

5 * 9.81

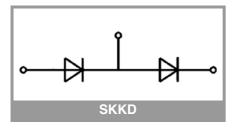
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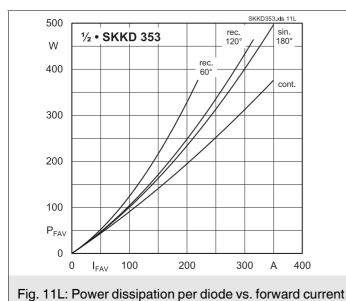
Nm

Nm

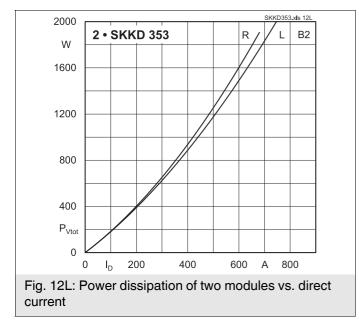
m/s²

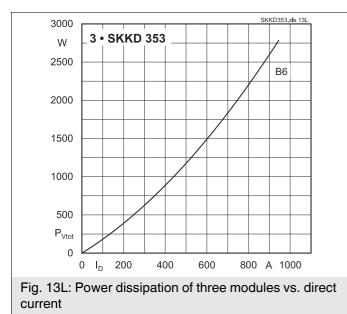
g

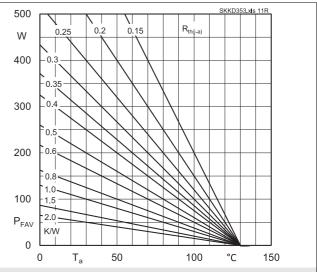


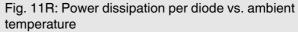


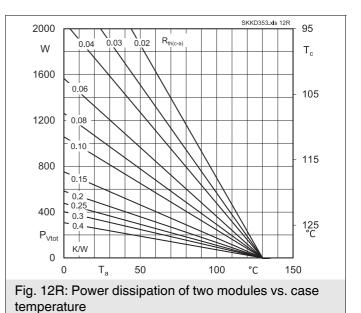












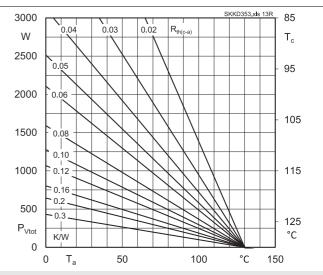
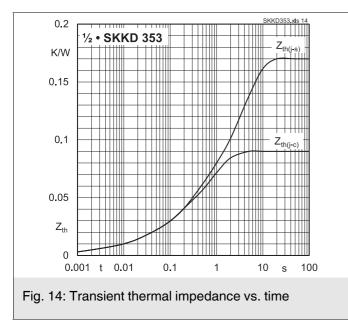
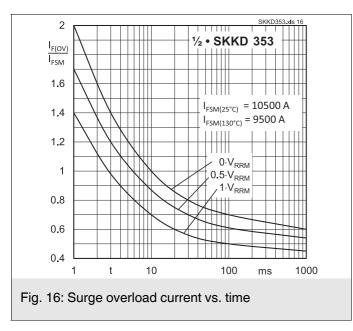
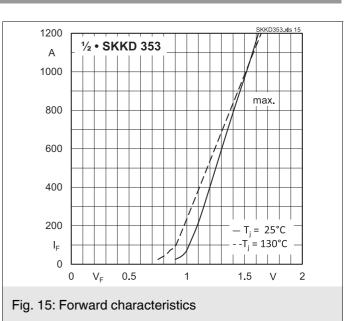
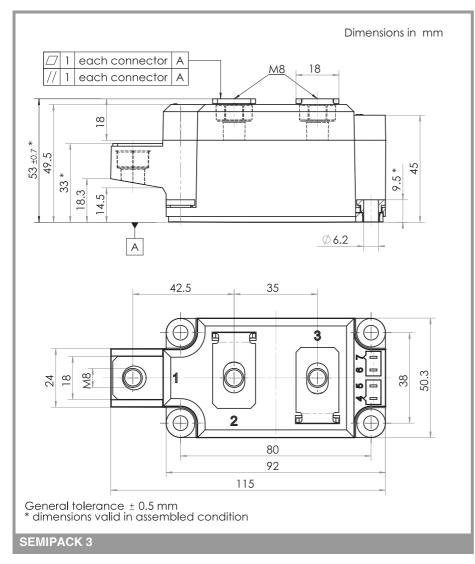


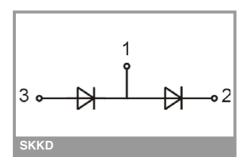
Fig. 13R: Power dissipation of three modules vs. case temperature











This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

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