SKD 145



SEMIPONT[©] 5

Bridge Rectifiers

SKD 145

Target Data

Features

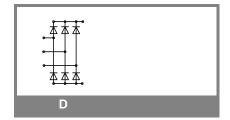
- · Compact design
- SKiiP technology: thermal pressure contact, no base plate and no hard mould
- · Two screws mounting
- Heat transfer and isolation through direct copper board (low R_{th})
- Low resistance in steady-state and high reliability
- High surge currents
- Up to 1800 V
- UL recognized, file no. E 63 532

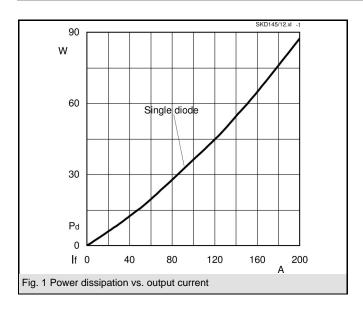
Typical Applications

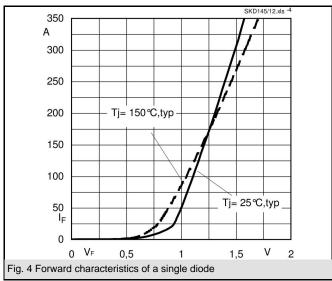
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers

V _{RSM}	V_{RRM}, V_{DRM}	I _D = 140 A (full conduction)
V	V	(T _s = 85 °C)
1200	1200	SKD 145/12
1600	1600	SKD 145/16
1800	1800	SKD 145/18

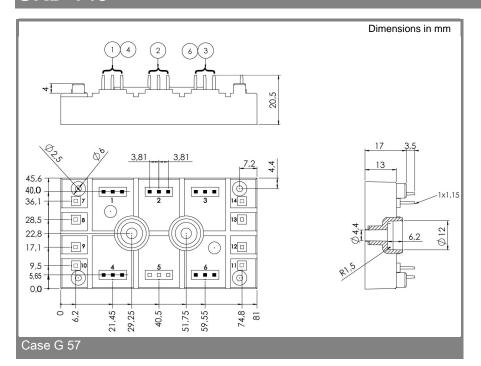
Symbol	Conditions	Values	Units
I _D	T _s = 85 °C	140	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	1800	А
	T _{vi} = 125 °C; 10 ms	1700	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	16200	A²s
	T _{vj} = 125 °C; 8,3 10 ms	14450	A²s
V _F	T _{vi} = 125 °C; I _F = 150 A	max. 1,3	V
$V_{(TO)}$	T _{vi} = 125 °C	max. 0,8	V
r _T	T _{vi} = 125 °C	max. 4	mΩ
I_{RD}	$T_{vj} = 25 ^{\circ}C; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$		mA
	,		mA
R _{thjh}	per diode	0,8	K/W
			K/W
_	Tampingle may 10a	200	°C
T _{solder}	Terminals, max 10s	260 - 40 + 150	°C
T _{vj}			
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M _s	to heatsink; SI units	2,5	Nm
M_t			Nm
m		75	g
Case		G 57	

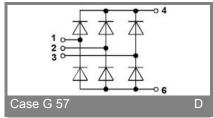






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