SKUT 115



Three phase antiparallel

Thyristor Module

SKUT 115

Target Data

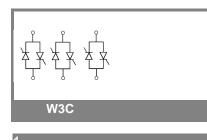
Features

- Compact design
- 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
- Glass passived thyristors chips
- Up to 1600V reverse voltage
- UL recognized, file no. E 63 532

Typical Applications

- Soft starter
- Light control
- (e.g. studios, theaters)
- Temperature control (e.g. oven, chemical processes)

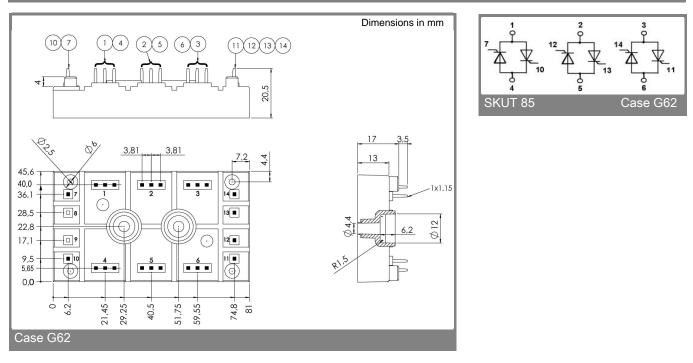
V _{RSM}		$V_{\rm RRM}, V_{\rm DRM}$	I _{RMS} = 105 A (full conduction)			
V		V	(T _s = 85 °C)			
1300	1300 1200		SKUT 115/12			
1700 16		1600	SKUT 115/16			
Symbol	Cond	itions			Values	Units
I _{RMS}		sin. 180° ; T _s = 85°C	;		105	A
Tano	; sin. 18	-				А
I _{TSM}		T _{vi} = 25 °C ; 10 ms				А
-15M		25 °C ; 10 ms			1250	A
i²t		5 °C ; 10 ms				A²s
	- 1	25 °C ; 8,310 ms			7800	A²s
V _T	T _{vi} = 25	5 °C, I _T = 150 A			max. 1,6	V
V _{T(TO)}	$T_{vi}^{vj} = 12$				max. 0,9	V
r _T	$T_{v_{j}} = 12$				max. 5	mΩ
I _{DD} ;I _{RD}		5 °C, V _{RD} =V _{RRM}			max. 1	mA
	T _{vj} = 12	25 °C, V _{RD} =V _{RRM}			max. 20	mA
t _{gd}	T _{vj} = 25	5 °C, I _G = 1 A; di _G /d	t= 1 A/µs		1	μs
t _{gr}	V _D = 0,	67 *V _{DRM}			2	μs
(dv/dt) _{cr}	T _{vi} = 12	25 °C			500	V/µs
(di/dt) _{cr}	$T_{vj} = 12$	T _{vj} = 125 °C; f= 5060 Hz			100	A/µs
t _q		T _{vj} = 125 °C; typ.			150	μs
I _Н	- 1	T _{vj} = 25 °C; typ. / max.			200	mA
I _L	- 1	5 °C; R _G = 33 Ω; typ	o. / max.		600	mA
V _{GT}		5 °C; d.c.			min. 3	V
I _{GT}		5 °C; d.c.			min. 150	mA
V _{GD}	T _{vj} = 125 °C; d.c.			max. 0,25		V
I _{GD}	T _{vj} = 12	25 °C; d.c.			max. 6	mA
R _{th(j-s)}	sin 180	°C per Thyristor			0,63	K/W
						K/W
T _{vi}					-40+125	°C
T _{stg}					-40+125	°C
T _{sold}	Termin	als, 10s max			260	°C
V _{isol}	a. c. 50	Hz; r.m.s.; 1 s / 1 r	nin.		3600 / 3000	V~
M _s	Mounti	ng torque to Heatsir	nk, SI units		2,5	Nm
Mt						Nm
а						m/s²
m					75	g
Case	SEMIP	ONT 5			G62	
L	1					



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