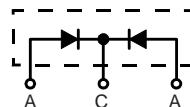


Power Schottky Rectifier with common cathode

I_{FAV} = 2x25 A
V_{RRM} = 30 V
V_F = 0.35 V

Preliminary Data

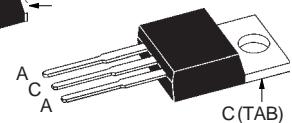
V _{RSM}	V _{RRM}	Type
V	V	
30	30	DSSK 48-003B
30	30	DSSK 48-003BS



TO-263 AB
(BS-Type)



TO-220 AC
(B-Type)



A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings		
I _{FRMS}		35	A	
I _{FAV}	T _C = 130°C; rectangular, d = 0.5	25	A	
I _{FAV}	T _C = 130°C; rectangular, d = 0.5; per device	50	A	
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	420	A	
E _{AS}	I _{AS} = tbd A; L = 180 µH; T _{VJ} = 25°C; non repetitive	tbd	mJ	
I _{AR}	V _A = 1.5 • V _{RRM} typ.; f=10 kHz; repetitive	tbd	A	
(dV/dt) _{cr}		tbd	V/µs	
T _{VJ}		-55...+150	°C	
T _{VJM}		150	°C	
T _{stg}		-55...+150	°C	
P _{tot}	T _C = 25°C	105	W	
M _d	mounting torque (Version B only)	0.4...0.6	Nm	
Weight	typical	2	g	

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values
- Epoxy meets UL 94V-0

Applications

- Rectifiers in switch mode power supplies (SMPS)
- Free wheeling diode in low voltage converters

Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching
- Low losses

Symbol	Conditions	Characteristic Values		Dimensions see Outlines.pdf
		typ.	max.	
I _R ①	T _{VJ} = 25°C; V _R = V _{RRM} T _{VJ} = 100°C; V _R = V _{RRM}	20 100	mA mA	
V _F	I _F = 20 A; T _{VJ} = 125°C I _F = 20 A; T _{VJ} = 25°C I _F = 40 A; T _{VJ} = 125°C	0.35 0.44 0.48	V V V	
R _{thJC} R _{thCH}	(Version B only)	0.5	1.2 K/W K/W	

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0%
Data according to IEC 60747 and per diode unless otherwise specified

IXYS reserves the right to change limits, test conditions and dimensions.