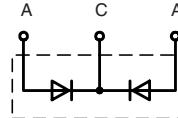


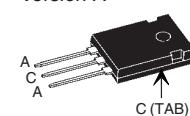
Power Schottky Rectifier with common cathode

I_{FAV} = 2x30 A
V_{RRM} = 200 V
V_F = 0.70 V

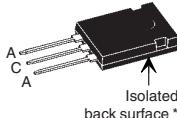
V _{RSM}	V _{RRM}	Type
V	V	
200	200	DSSK 60-02A
200	200	DSSK 60-02AR



TO-247 AD
Version A



ISOPLUS 247™
Version AR



* Patent pending

C = Cathode, A = Anode, TAB = Cathode

Symbol	Conditions	Maximum Ratings		
I _{FRMS}		70	A	
I _{FAV}	T _C = 155°C; rectangular, d = 0.5	30	A	
I _{FAV}	T _C = 155°C; rectangular, d = 0.5; per device	60	A	
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	600	A	
E _{AS}	I _{AS} = 4 A; L = 100 µH; T _{VJ} = 25°C; non repetitive	0.8	mJ	
I _{AR}	V _A = 1.5 • V _{RRM} typ.; f=10 kHz; repetitive	0.4	A	
(dv/dt) _{cr}		18000	V/µs	
T _{VJ}		-55...+175	°C	
T _{VJM}		175	°C	
T _{stg}		-55...+150	°C	
P _{tot}	T _C = 25°C	190	W	
M _d	Version A: mounting torque M3	0.8...1.2	Nm	
F _c	Version AR: mounting force with clip	20...120	N	
V _{ISOL} *	50/60 Hz, RMS; t = 1 s	3000	V~	
Weight	typical	6	g	

* Version AR only

Symbol	Conditions	Characteristic Values	
		typ.	max.
I _R ①	V _R = V _{RRM} ; T _{VJ} = 25°C	2	mA
	V _R = V _{RRM} ; T _{VJ} = 125°C	20	mA
V _F	I _F = 30 A; T _{VJ} = 125°C	0.70	V
	I _F = 30 A; T _{VJ} = 25°C	0.85	V
	I _F = 60 A; T _{VJ} = 125°C	0.84	V
R _{thJC}		0.8	K/W
R _{thCH}		0.25	K/W

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0 %

Data according to IEC 60747 and per diode unless otherwise specified

Dimensions see Outlines.pdf

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0548

1 - 2

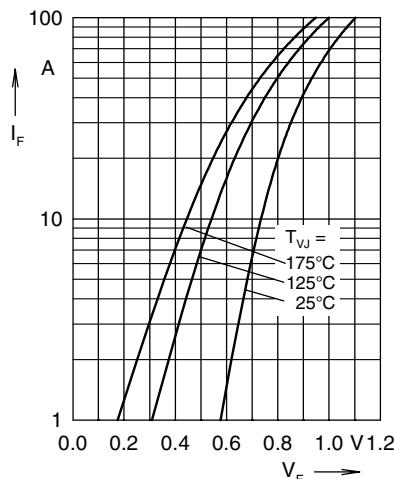


Fig. 1 Maximum forward voltage drop characteristics

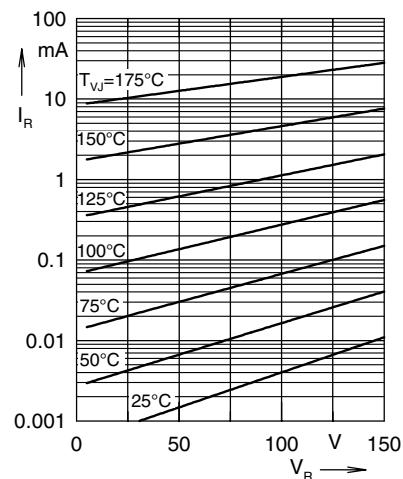


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

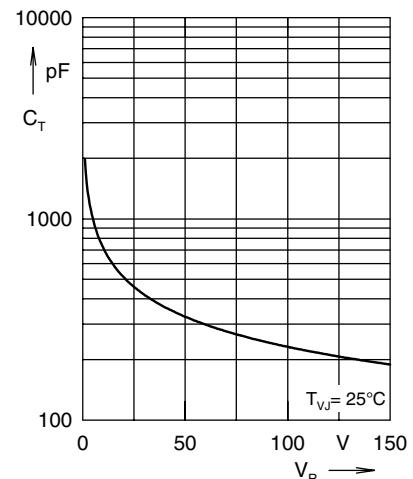


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

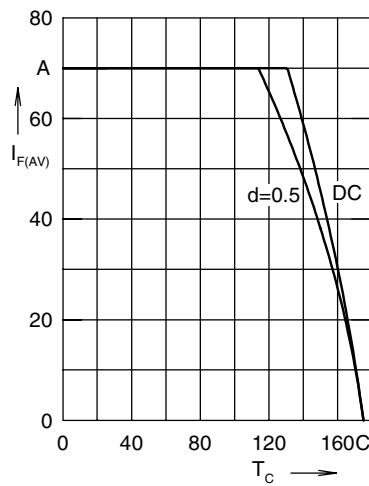


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

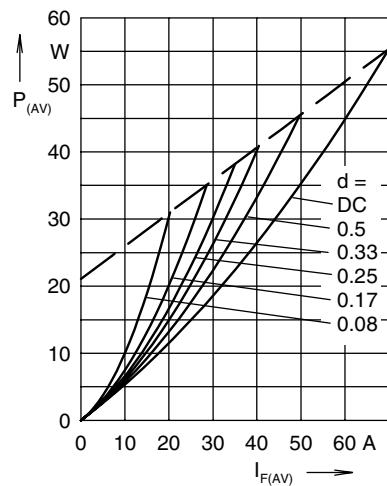


Fig. 5 Forward power loss characteristics

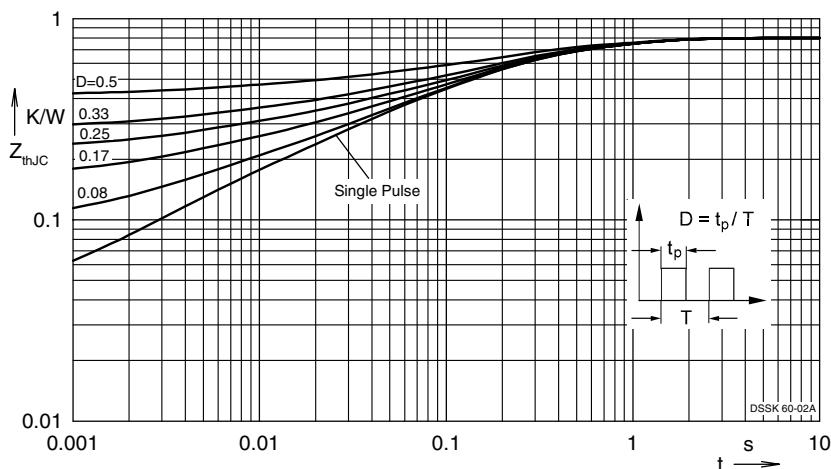


Fig. 6 Transient thermal impedance junction to case at various duty cycles

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2 - 2