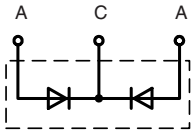
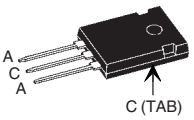
Power Schottky Rectifier
with common cathode

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

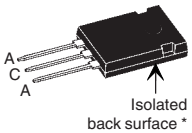
V_{RSM} V	V_{RRM} V	Type
200	200	DSSK 60-02A
200	200	DSSK 60-02AR



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

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values
- Epoxy meets UL 94V-0
- Version ..R isolated and UL registered E153432

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

Dimensions see Outlines.pdf

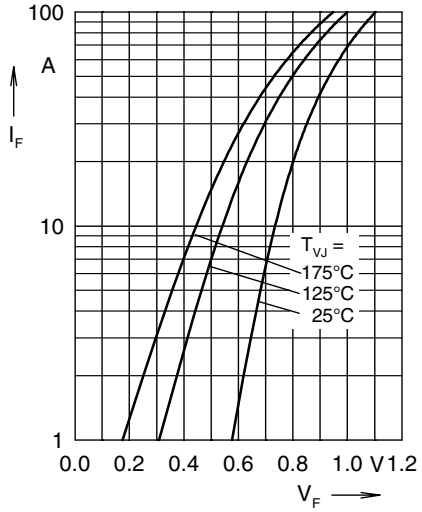


Fig. 1 Maximum forward voltage drop characteristics

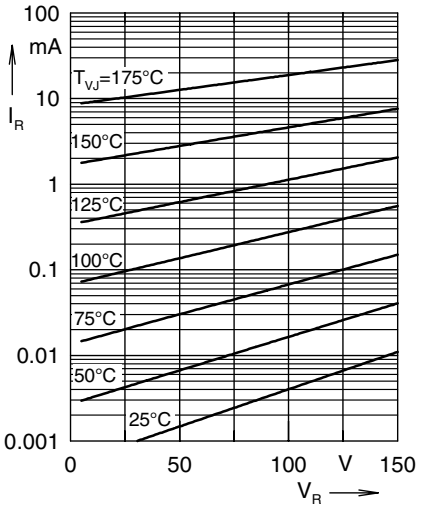


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

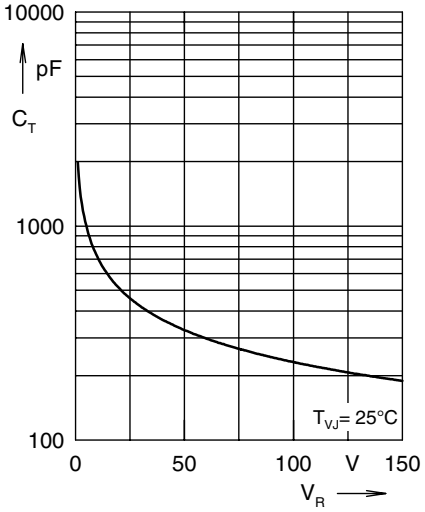


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

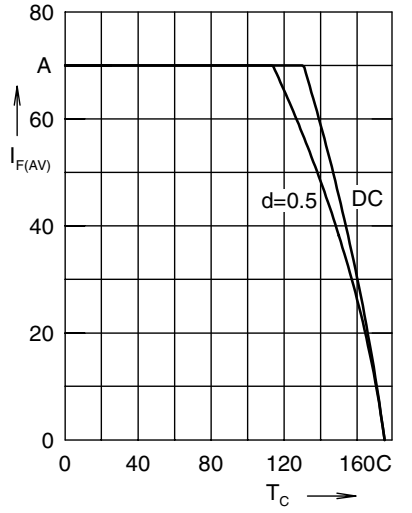


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

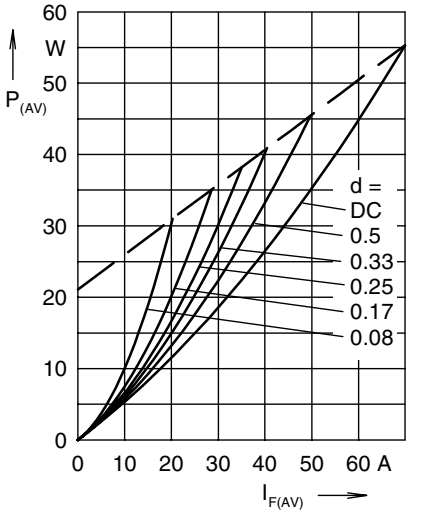


Fig. 5 Forward power loss characteristics

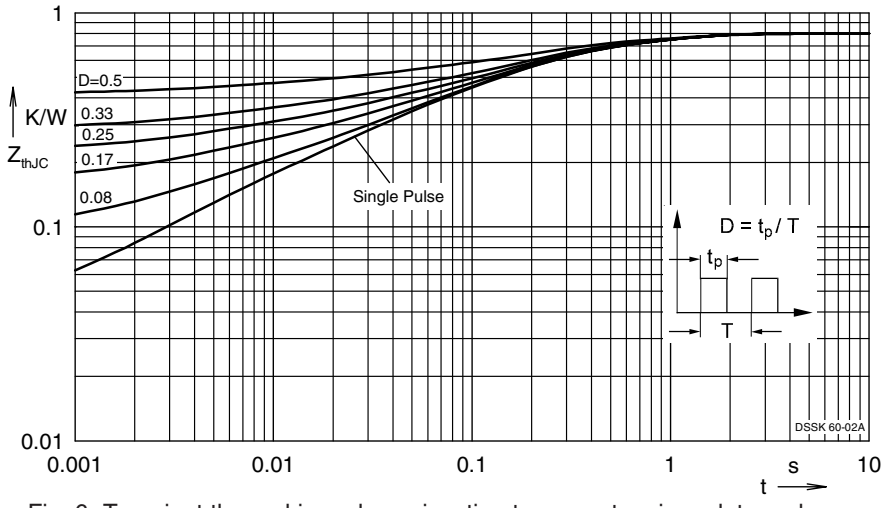


Fig. 6 Transient thermal impedance junction to case at various duty cycles

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