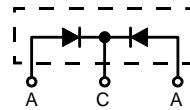


Power Schottky Rectifier with common cathode

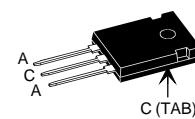
I_{FAV} = 2x30 A
V_{RRM} = 130 / 150 V
V_F = 0.69 V

Preliminary Data

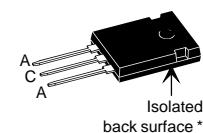
V _{RSM} V	V _{RRM} V	Type
130	130	DSSK 60-013A
150	150	DSSK 60-015A
150	150	DSSK 60-015AR



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} = 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}		18000	V/ms
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 minute, leads-to-tab	2500	V~
Weight	typical	6	g

* Version AR only

Symbol	Conditions	Characteristic Values	
		typ.	max.
I _R	T _{VJ} = 25°C V _R = V _{RRM}	2	mA
	T _{VJ} = 125°C V _R = V _{RRM}	20	mA
V _F	I _F = 30 A; T _{VJ} = 125°C	0.69	V
	I _F = 30 A; T _{VJ} = 25°C	0.83	V
	I _F = 60 A; T _{VJ} = 125°C	0.80	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

IXYS reserves the right to change limits, Conditions and dimensions.

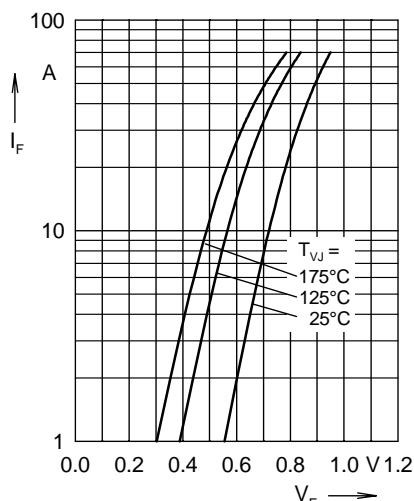


Fig. 1 Maximum forward voltage drop characteristics

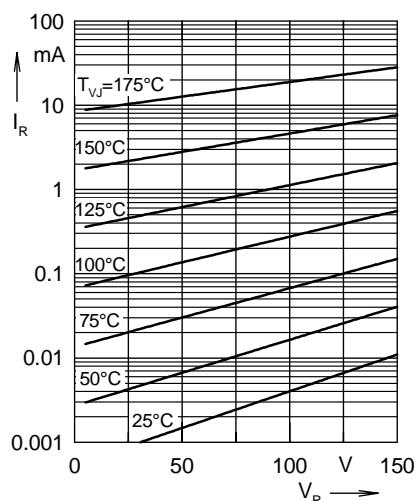


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

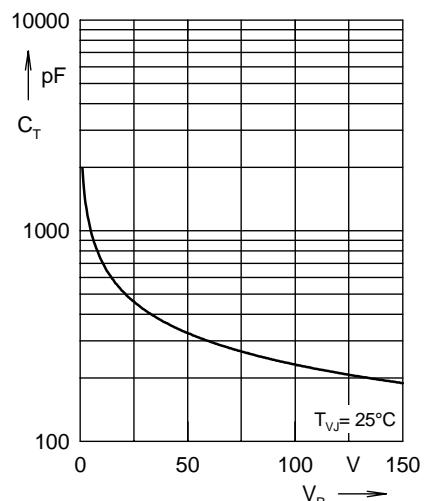


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

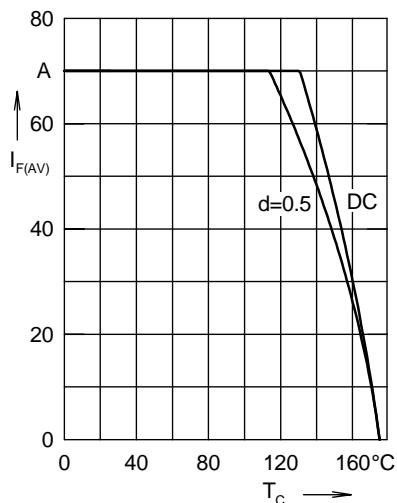


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_c

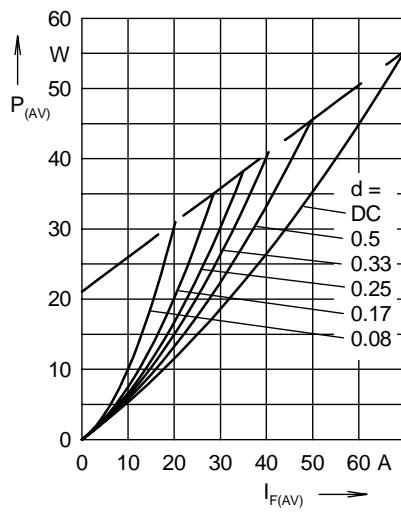


Fig. 5 Forward power loss characteristics

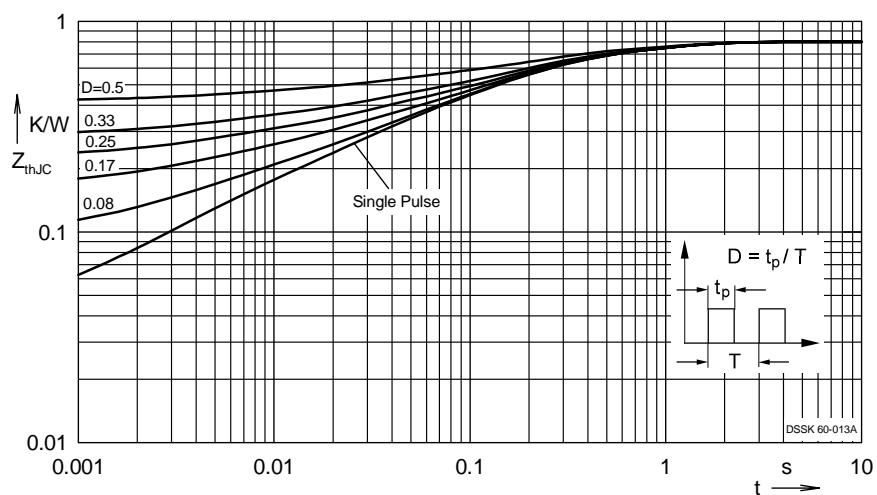


Fig. 6 Transient thermal impedance junction to case at various duty cycles