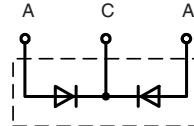


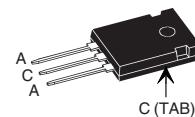
# Power Schottky Rectifier with common cathode

**I<sub>FAV</sub>** = 2x30 A  
**V<sub>RRM</sub>** = 150 V  
**V<sub>F</sub>** = 0.66 V

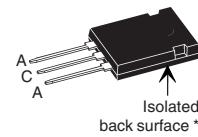
V <sub>RSM</sub> V	V <sub>RRM</sub> V	Type
150	150	DSSK 60-015A
150	150	DSSK 60-015AR



**TO-247 AD**  
Version A



**ISOPLUS 247™**  
Version AR



\* Patent pending

C = Cathode, A = Anode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I <sub>FRMS</sub>		70	A
I <sub>FAV</sub>	T <sub>C</sub> = 155°C; rectangular, d = 0.5	30	A
I <sub>FAV</sub>	T <sub>C</sub> = 155°C; rectangular, d = 0.5; per device	60	A
I <sub>FSM</sub>	T <sub>VJ</sub> = 45°C; t <sub>p</sub> = 10 ms (50 Hz), sine	600	A
E <sub>AS</sub>	I <sub>AS</sub> = 4 A; L = 100 µH; T <sub>VJ</sub> = 25°C; non repetitive	0.8	mJ
I <sub>AR</sub>	V <sub>A</sub> = 1.5 • V <sub>RRM</sub> typ.; f=10 kHz; repetitive	0.4	A
(dv/dt) <sub>cr</sub>		18000	V/µs
T <sub>VJ</sub>		-55...+175	°C
T <sub>VJM</sub>		175	°C
T <sub>stg</sub>		-55...+150	°C
P <sub>tot</sub>	T <sub>C</sub> = 25°C	190	W
M <sub>d</sub>	Version A: mounting torque M3	0.8...1.2	Nm
F <sub>c</sub>	Version AR: mounting force with clip	20...120	N
V <sub>ISOL</sub> *	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 <sub>R</sub> ①	V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = 25°C	2	mA
	V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = 125°C	20	mA
V <sub>F</sub>	I <sub>F</sub> = 30 A; T <sub>VJ</sub> = 125°C	0.66	V
	I <sub>F</sub> = 30 A; T <sub>VJ</sub> = 25°C	0.81	V
	I <sub>F</sub> = 60 A; T <sub>VJ</sub> = 125°C	0.80	V
R <sub>thJC</sub> R <sub>thCH</sub>		0.25	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

Dimensions see Outlines.pdf

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

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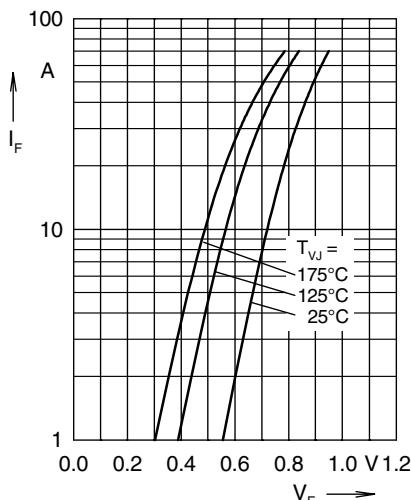


Fig. 1 Maximum forward voltage drop characteristics

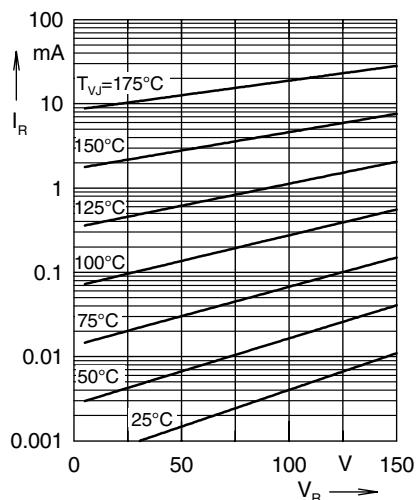


Fig. 2 Typ. value of reverse current  $I_R$  versus reverse voltage  $V_R$

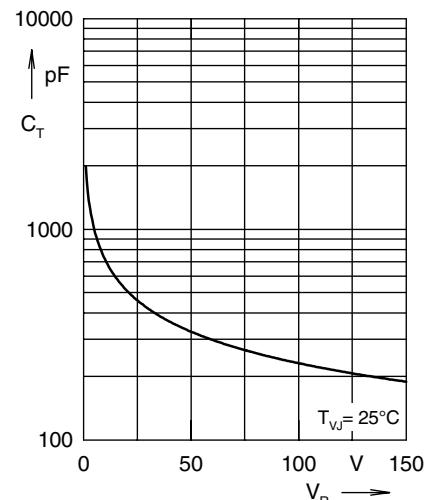


Fig. 3 Typ. junction capacitance  $C_T$  versus reverse voltage  $V_R$

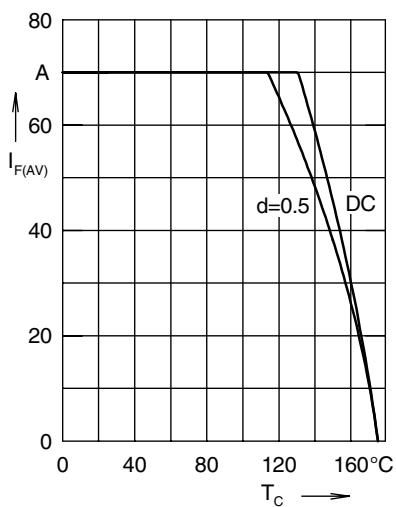


Fig. 4 Average forward current  $I_{F(AV)}$  versus case temperature  $T_C$

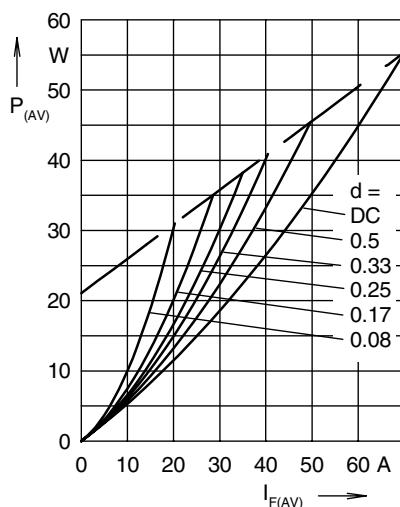


Fig. 5 Forward power loss characteristics

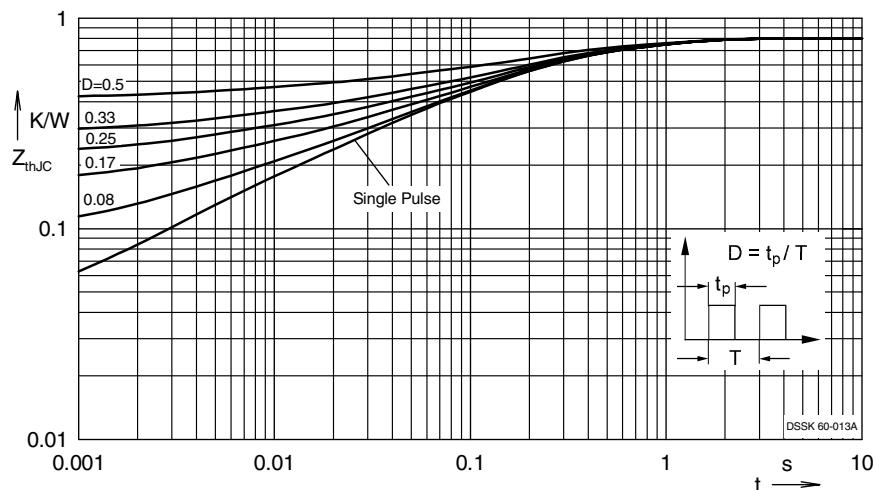


Fig. 6 Transient thermal impedance junction to case at various duty cycles