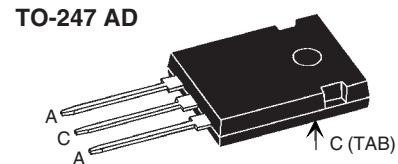
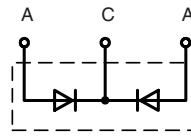


# Power Schottky Rectifier with common cathode

## Preliminary Data

$V_{RSM}$	$V_{RRM}$	Type
V	V	
150	150	DSSK 50-015A



A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings		
$I_{FRMS}$		70	A	
$I_{FAV}$	$T_c = 150^\circ\text{C}$ ; rectangular, $d = 0.5$	25	A	
$I_{FAV}$	$T_c = 150^\circ\text{C}$ ; rectangular, $d = 0.5$ ; per device	50	A	
$I_{FSM}$	$T_{vj} = 45^\circ\text{C}$ ; $t_p = 10 \text{ ms}$ (50 Hz), sine	450	A	
$E_{AS}$	$I_{AS} = \text{tbd A}$ ; $L = 180 \mu\text{H}$ ; $T_{vj} = 25^\circ\text{C}$ ; non repetitive	tbd	mJ	
$I_{AR}$	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f=10 \text{ kHz}$ ; repetitive	tbd	A	
$(dv/dt)_{cr}$		18	kV/ $\mu$ s	
$T_{vj}$		-55...+175	°C	
$T_{vjm}$		175	°C	
$T_{stg}$		-55...+150	°C	
$P_{tot}$	$T_c = 25^\circ\text{C}$	135	W	
$M_d$	mounting torque M3	0.8...1.2	Nm	
Weight	typical	6	g	

Symbol	Conditions	Characteristic Values	
		typ.	max.
$I_R$	① $T_{vj} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{vj} = 125^\circ\text{C}$ $V_R = V_{RRM}$	1.5 10	mA mA
$V_F$	$I_F = 25 \text{ A}; T_{vj} = 125^\circ\text{C}$ $I_F = 25 \text{ A}; T_{vj} = 25^\circ\text{C}$ $I_F = 50 \text{ A}; T_{vj} = 125^\circ\text{C}$	0.68 0.81 0.81	V V V
$R_{thJC}$		1.1	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.

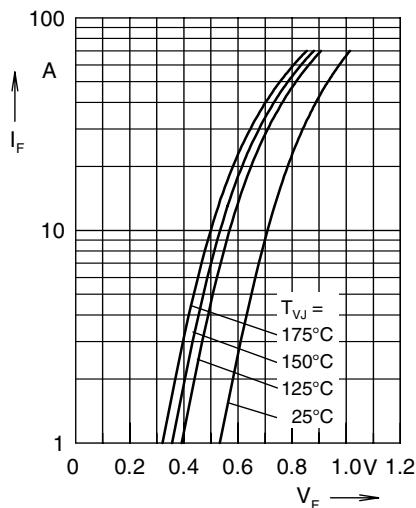


Fig. 1 Maximum forward voltage drop characteristics

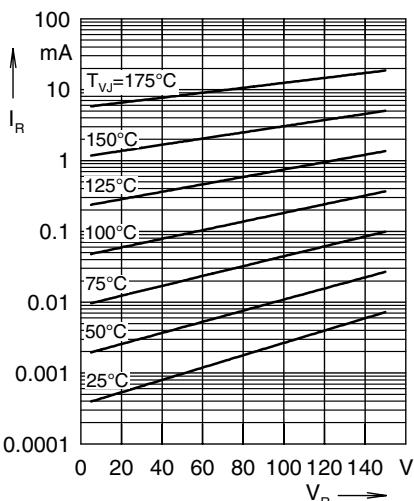


Fig. 2 Typ. value of reverse current  $I_R$  versus reverse voltage  $V_R$

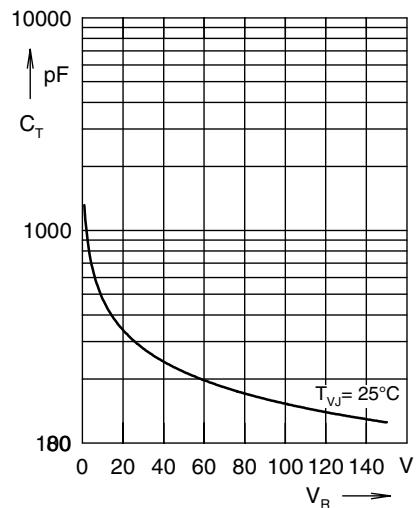


Fig. 3 Typ. junction capacitance  $C_T$  versus reverse voltage  $V_R$

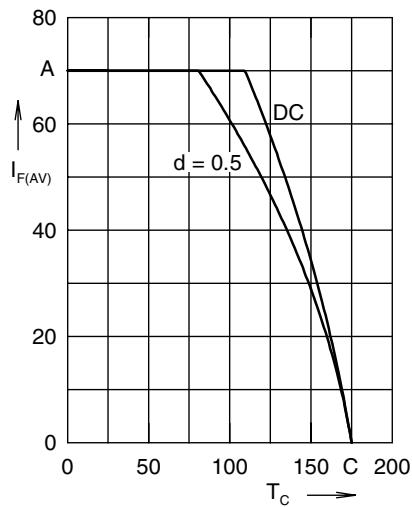


Fig. 4 Average forward current  $I_{F(AV)}$  versus case temperature  $T_C$

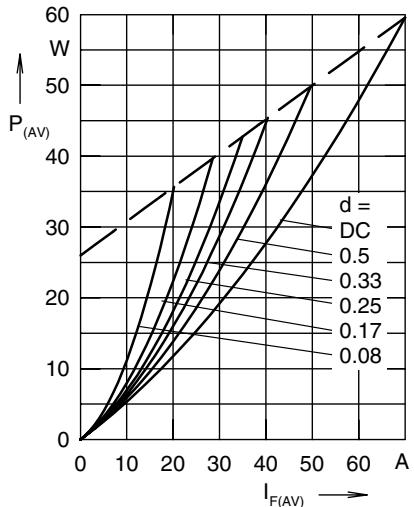


Fig. 5 Forward power loss characteristics

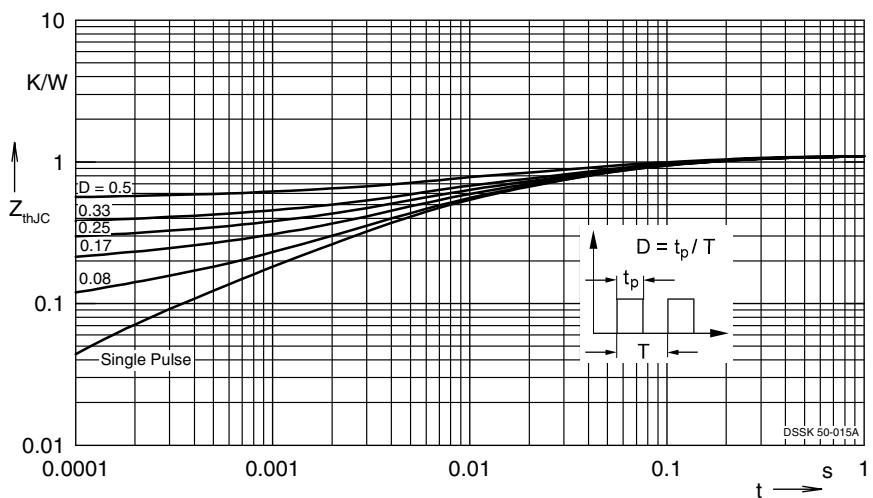


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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