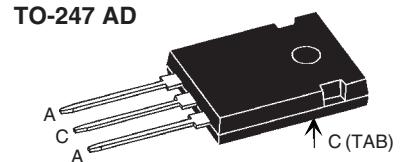
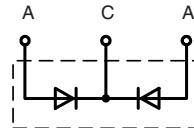


## Power Schottky Rectifier with common cathode

**I<sub>FAV</sub>** = 2x20 A  
**V<sub>RRM</sub>** = 80 V  
**V<sub>F</sub>** = 0.52 V

V <sub>RSM</sub>	V <sub>RRM</sub>	Type
V	V	
80	80	DSSK 40-008B



A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings		
I <sub>FRMS</sub>		70		A
I <sub>FAV</sub>	T <sub>C</sub> = 130°C; rectangular, d = 0.5	20		A
I <sub>FAV</sub>	T <sub>C</sub> = 130°C; rectangular, d = 0.5; per device	40		A
I <sub>FSM</sub>	T <sub>VJ</sub> = 45°C; t <sub>p</sub> = 10 ms (50 Hz), sine	500		A
E <sub>AS</sub>	I <sub>AS</sub> = 20 A; L = 100 µH; T <sub>VJ</sub> = 25°C; non repetitive	20	mJ	
I <sub>AR</sub>	V <sub>A</sub> = 1.5·V <sub>RRM</sub> typ.; f = 10 kHz; repetitive	2		A
(dV/dt) <sub>cr</sub>		1000	V/µs	
T <sub>VJ</sub>		-55...+150	°C	
T <sub>VJM</sub>		150	°C	
T <sub>stg</sub>		-55...+150	°C	
P <sub>tot</sub>	T <sub>C</sub> = 25°C	115		W
M <sub>d</sub>	mounting torque	0.8...1.2	Nm	
Weight	typical	6		g

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 V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = 100°C	20	mA	
		150	mA	
V <sub>F</sub>	I <sub>F</sub> = 20 A; T <sub>VJ</sub> = 125°C I <sub>F</sub> = 20 A; T <sub>VJ</sub> = 25°C I <sub>F</sub> = 40 A; T <sub>VJ</sub> = 125°C	0.52 0.58 0.68	V	
R <sub>thJC</sub>		1.1	K/W	
R <sub>thCH</sub>		0.25	K/W	

Dimensions see Outlines.pdf

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0%  
Data according to IEC 60747 and per diode unless otherwise specified.

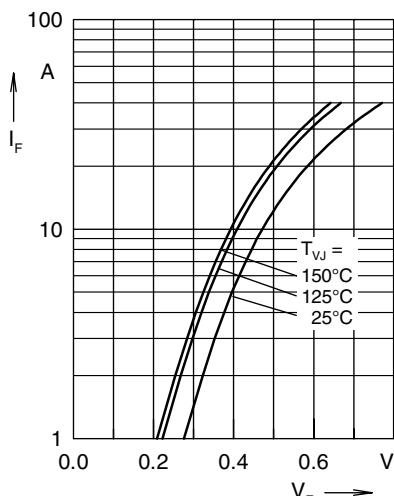


Fig. 1 Maximum forward voltage drop characteristics

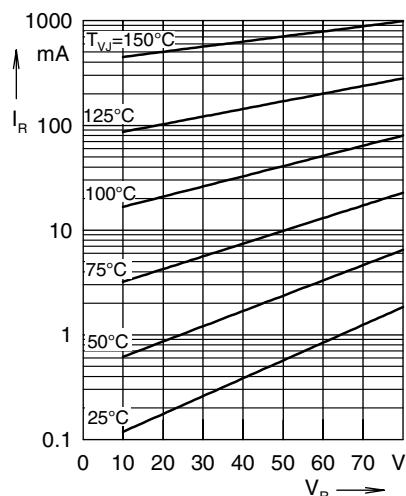


Fig. 2 Typ. value of reverse current  $I_R$  vs. reverse voltage  $V_R$

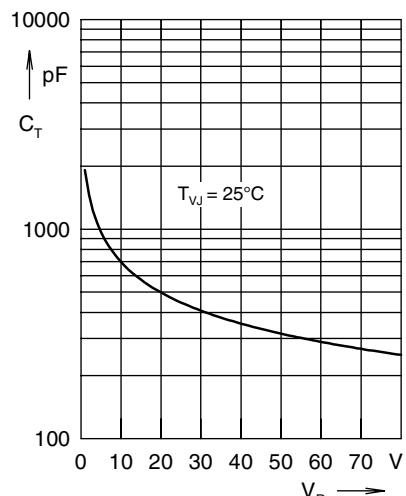


Fig. 3 Typ. junction capacitance  $C_T$  vs. reverse voltage  $V_R$

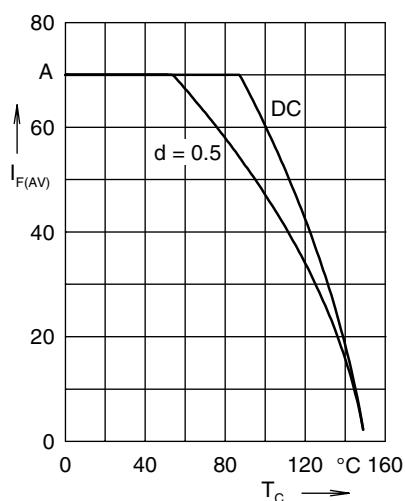


Fig. 4 Average forward current  $I_{F(AV)}$  versus case temperature  $T_C$

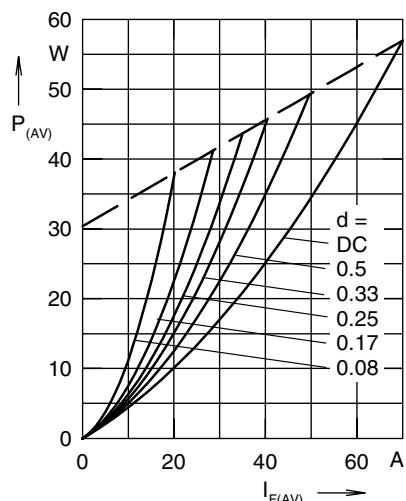


Fig. 5 Forward power loss characteristics

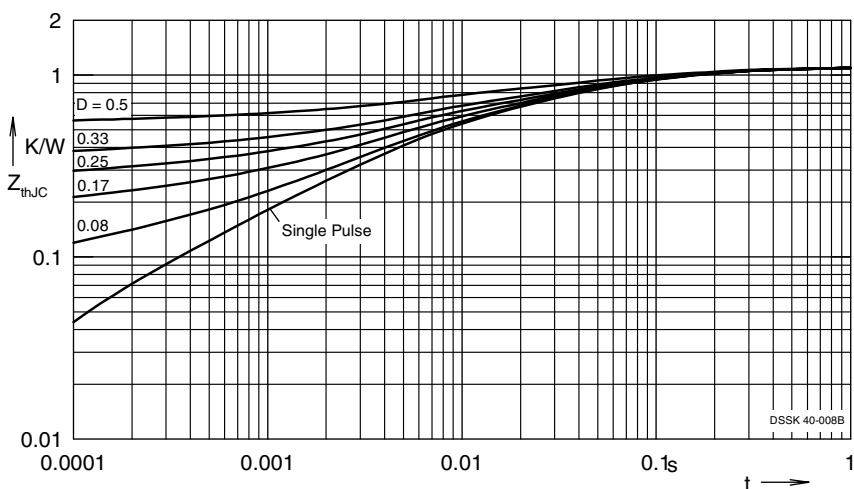


Fig. 6 Transient thermal impedance junction to case at various duty cycles