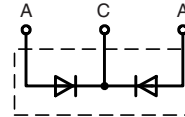
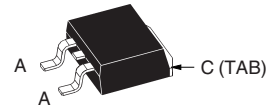


Power Schottky Rectifier with common cathode

$$\begin{aligned} I_{FAV} &= 15 \text{ A} \\ V_{RRM} &= 100 \text{ V} \\ V_F &= 0.64 \text{ V} \end{aligned}$$

V_{RSM}	V_{RRM}	Type
V	V	
100	100	DSSK 28-01AS


TO-263 AB


A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 160^\circ\text{C}$; rectangular, $d = 0.5$	2x15	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sinev	230	A
E_{AS}	$I_{AS} = 10 \text{ A}$; $L = 100 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	5	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10 \text{ kHz}$; repetitive	1	A
$(dv/dt)_{cr}$		5000	V/ μs
T_{VJ}		-55...+175	$^\circ\text{C}$
T_{VJM}		175	$^\circ\text{C}$
T_{stg}		-55...+150	$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	105	W
F_c	mounting force	20...60	N
Weight	typical	2	g

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM} -values
- Epoxy meets UL 94V-0

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

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$; $T_{VJ} = 125^\circ\text{C}$	0.5 5	mA mA
V_F	$I_F = 15 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$ $I_F = 15 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $I_F = 30 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.64 0.82 0.78	V V V
R_{thJC}		1.4	K/W

Pulse test: Pulse Width = 5 ms, Duty Cycle < 2.0 %

Data according to IEC 60747 and per diode unless otherwise specified

Dimensions see Outlines.pdf

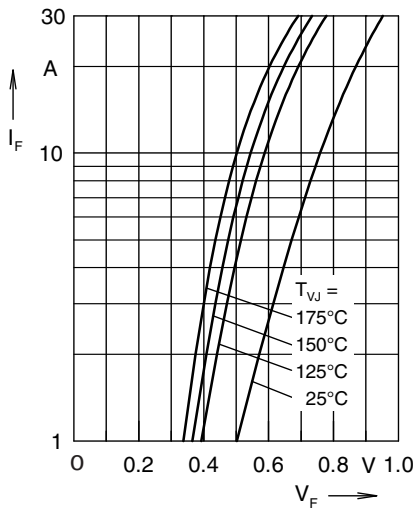


Fig. 1 Max. forward voltage drop characteristics

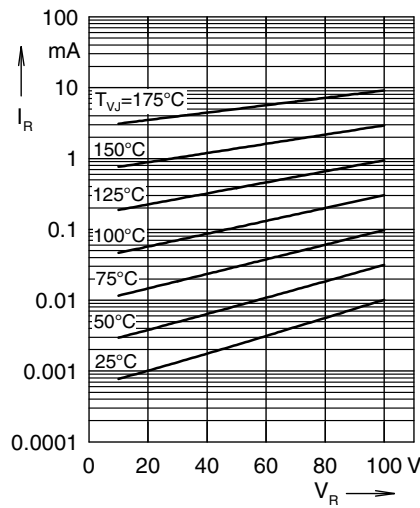


Fig. 2 Typ. reverse current I_R vs. reverse voltage V_R

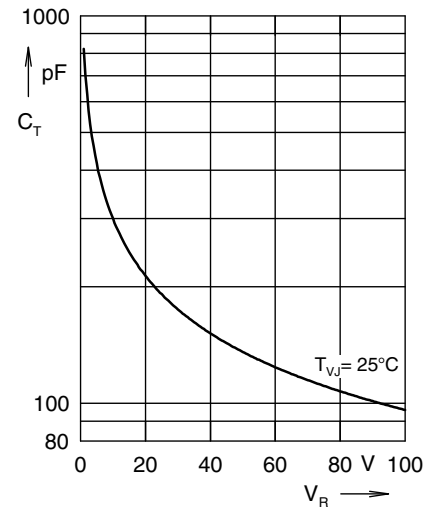


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

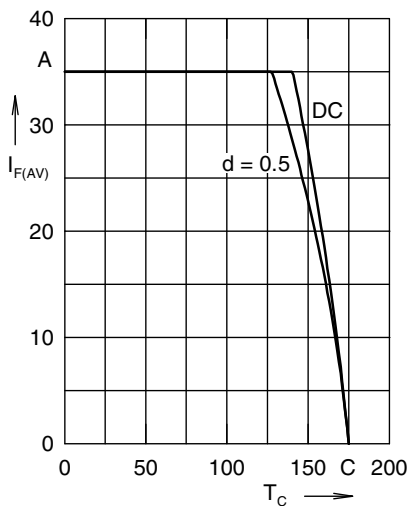


Fig. 4 Avg. forward current $I_{F(AV)}$ vs. case temperature T_C

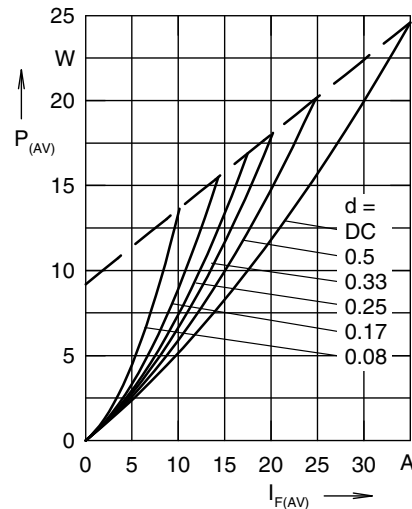


Fig. 5 Forward power loss characteristics

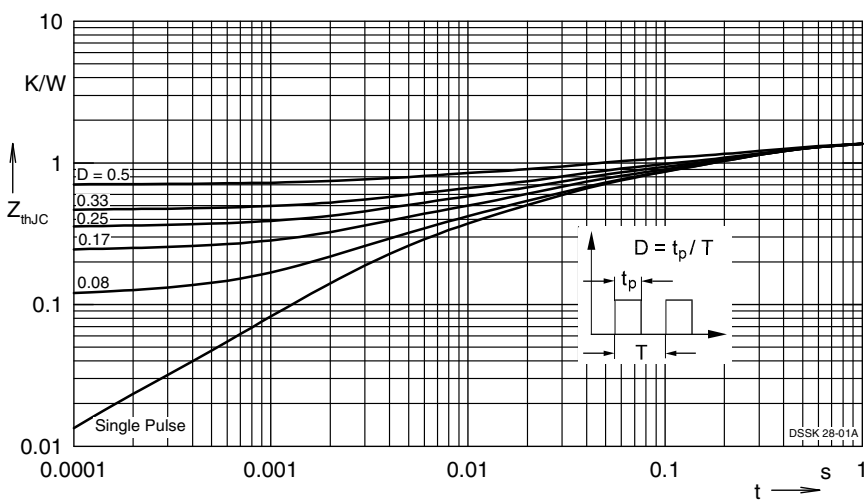


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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