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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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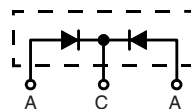
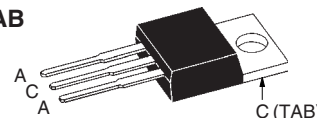
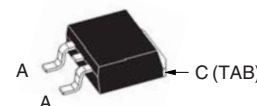
Power Schottky Rectifier with common cathode

$$I_{FAV} = 2 \times 8 \text{ A}$$

$$V_{RRM} = 100 \text{ V}$$

$$V_F = 0.63 \text{ V}$$

V_{RSM}	V_{RRM}	Type
V	V	
100	100	DSSK 16-01A
100	100	DSSK 16-01AS


TO-220 AB
(A-Type)

TO-263 AB
(AS-Type)


A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 165^\circ\text{C}$; rectangular, $d = 0.5$	8	A
I_{FAV}	$T_C = 165^\circ\text{C}$; rectangular, $d = 0.5$; per device	16	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	120	A
E_{AS}	$I_{AS} = 5 \text{ A}$; $L = 100 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	1.3	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10 \text{ kHz}$; repetitive	0.8	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}	$T_C = 25^\circ\text{C}$	90	W
M_d	mounting torque (Version A only)	0.4...0.6	Nm
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

Dimensions see Outlines.pdf

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$		0.3 mA
	$V_R = V_{RRM}$; $T_{VJ} = 125^\circ\text{C}$		2.5 mA
V_F	$I_F = 8 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$		0.63 V
	$I_F = 8 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$		0.81 V
	$I_F = 16 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$		0.75 V
R_{thJC}			1.7 K/W
R_{thCH} (Version A only)	0.5		K/W

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

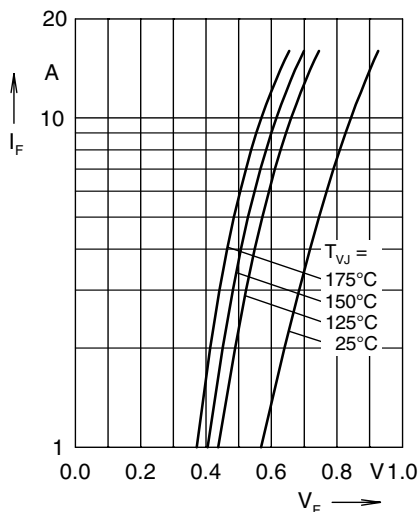


Fig. 1 Max. forward voltage drop characteristics

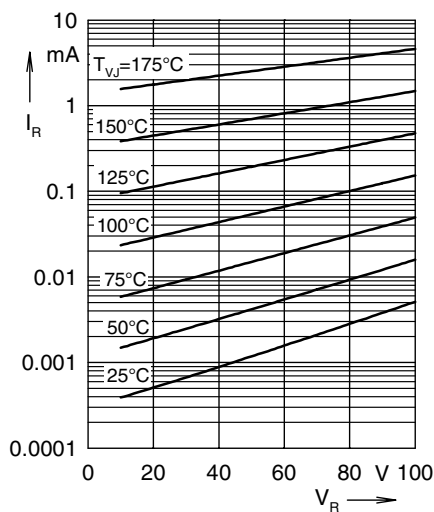


Fig. 2 Typ. reverse current I_R versus reverse voltage

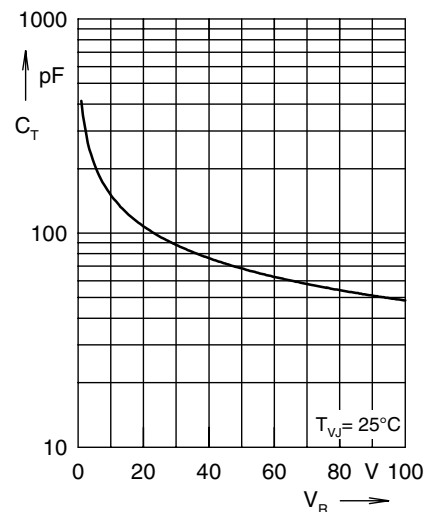


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

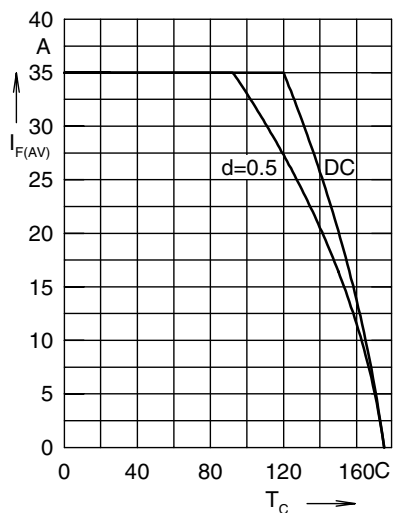


Fig. 4 Avg. forward current $I_{F(AV)}$ vs. case temperature T_C

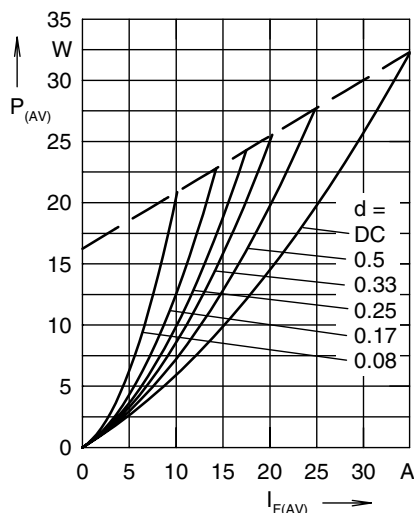


Fig. 5 Forward power loss characteristics

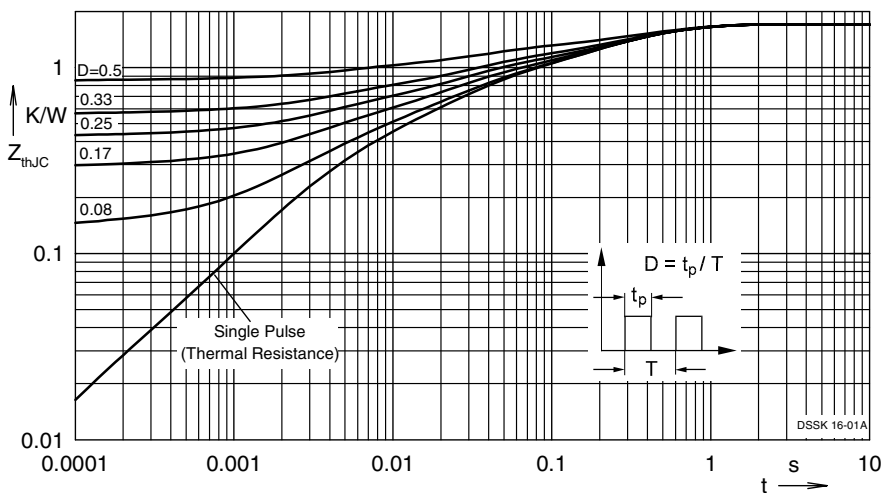


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per Diode