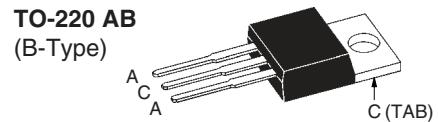
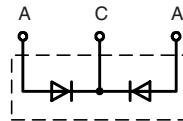


Power Schottky Rectifier with common cathode

$I_{FAV} = 2 \times 15 \text{ A}$
 $V_{RRM} = 60 \text{ V}$
 $V_F = 0.52 \text{ V}$

V_{RSM}	V_{RRM}	Type
V	V	
60	60	DSSK 28-006B



A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings		
I_{FRMS}		35		A
I_{FAV}	$T_C = 135^\circ\text{C}$; rectangular, $d = 0.5$	15		A
I_{FAV}	$T_C = 135^\circ\text{C}$; rectangular, $d = 0.5$; per device	30		A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	300		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
$(dv/dt)_{cr}$		1000		$\text{V}/\mu\text{s}$
T_{VJ}		-55...+150		$^\circ\text{C}$
T_{VJM}		150		$^\circ\text{C}$
T_{stg}		-55...+150		$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	90		W
M_d	mounting torque (Version B only)	0.4...0.6		Nm
Weight	typical	2		g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$	10	mA
	$V_R = V_{RRM}$; $T_{VJ} = 100^\circ\text{C}$	50	mA
V_F	$I_F = 15 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.52	V
	$I_F = 15 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	0.56	V
	$I_F = 30 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.69	V
R_{thJC}		0.5	1.4 K/W
R_{thCH}			K/W

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

Recommended replacement:
DSB30C60PB/DSB60C60PB

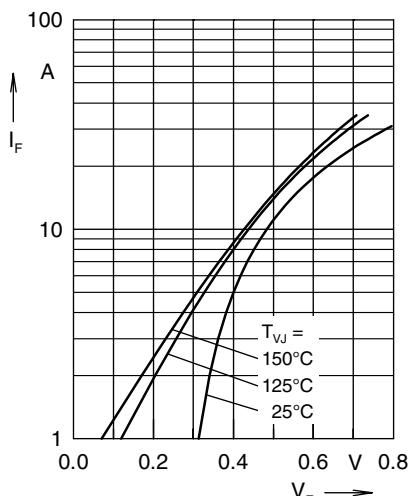


Fig. 1 Maximum forward voltage drop characteristics

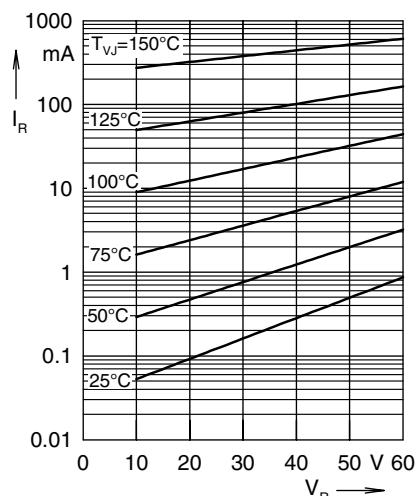


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

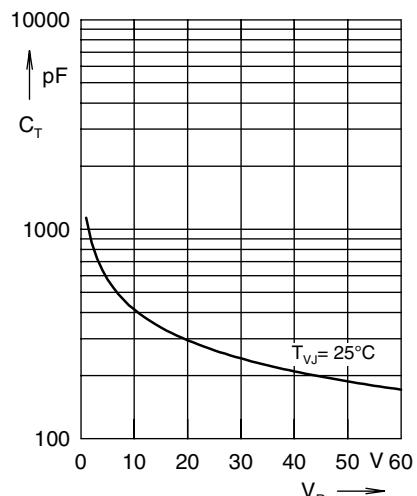


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

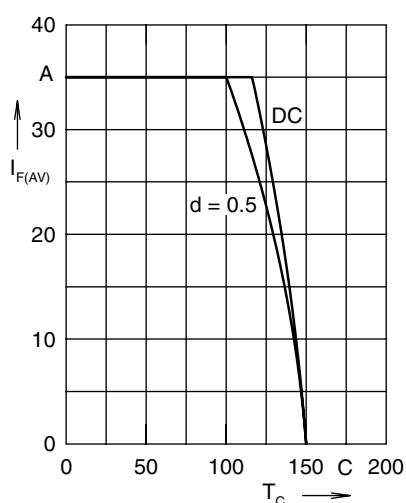


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

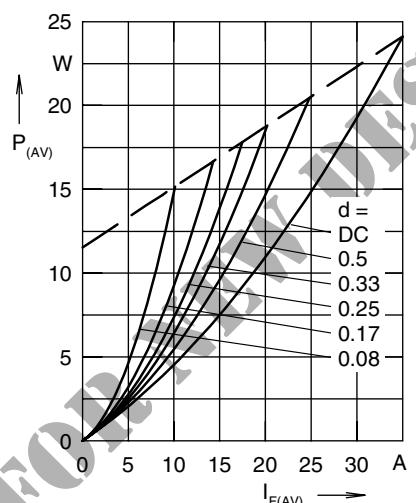


Fig. 5 Forward power loss characteristics

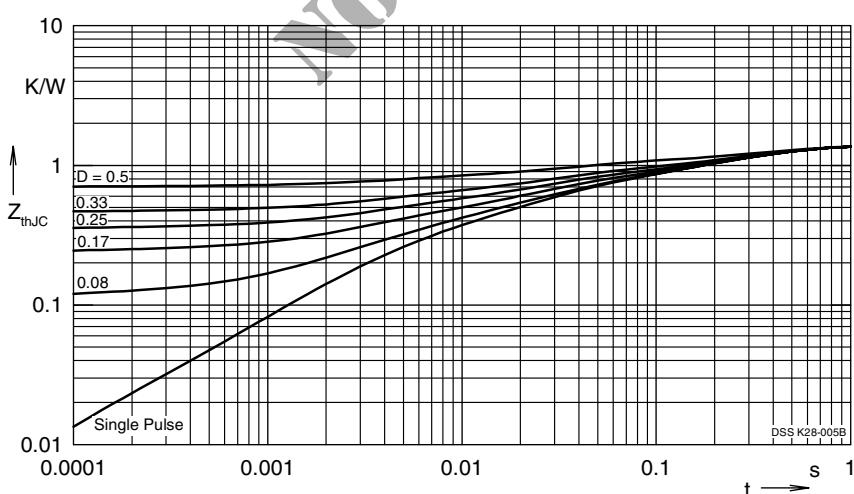


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode