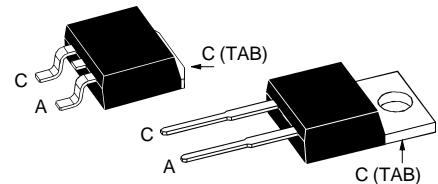


Power Schottky Rectifier

$I_{FAV} = 16 \text{ A}$
 $V_{RRM} = 45 \text{ V}$
 $V_F = 0.57 \text{ V}$

V_{RSM}	V_{RRM}	Type
V	V	
45	45	DSS 16-0045A DSS 16-0045AS

TO-263 AB
(AS-Type)TO-220 AC
(A-Type)

A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 160^\circ\text{C}$; rectangular, $d = 0.5$	16	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	280	A
E_{AS}	$I_{AS} = 15 \text{ A}$; $L = 180 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	32	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f=10 \text{ kHz}$; repetitive	1.5	A
$(dv/dt)_{cr}$		1000	$\text{V}/\mu\text{s}$
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
M_d	mounting torque	0.4...0.6	Nm
Weight	typical	2	g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{VJ} = 125^\circ\text{C}$ $V_R = V_{RRM}$	0.5 5	mA mA
V_F	$I_F = 15 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$ $I_F = 15 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $I_F = 30 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.57 0.67 0.69	V V V
R_{thJC}		1.4	K/W
R_{thCH}		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

IXYS reserves the right to change limits, Conditions and dimensions.

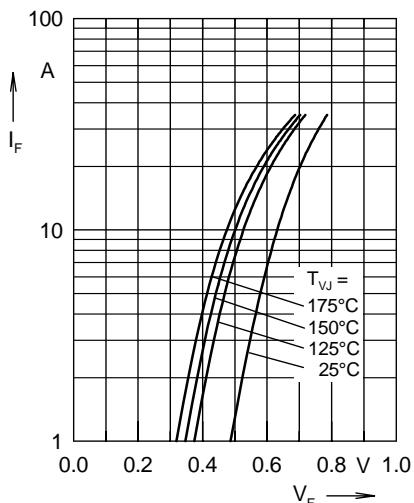


Fig. 1 Maximum forward voltage drop characteristics

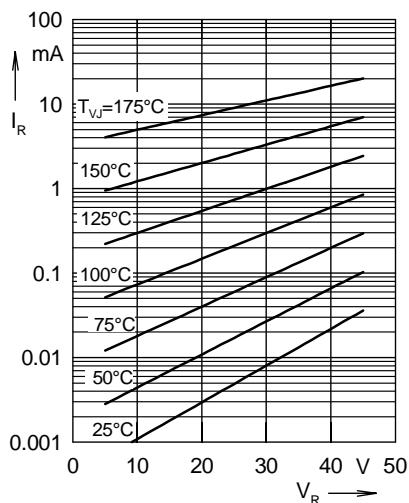


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

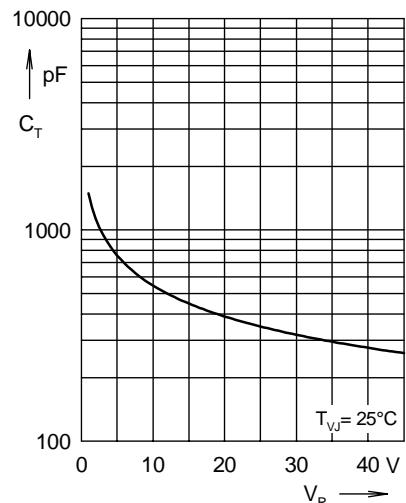


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

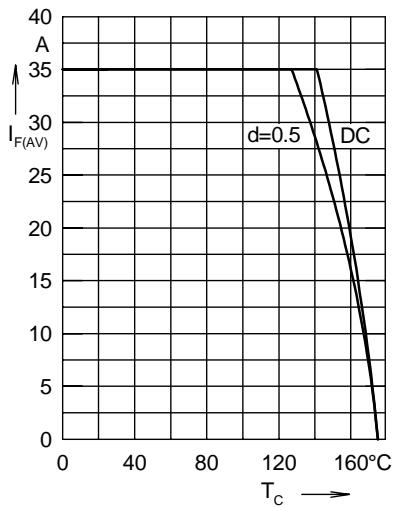


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

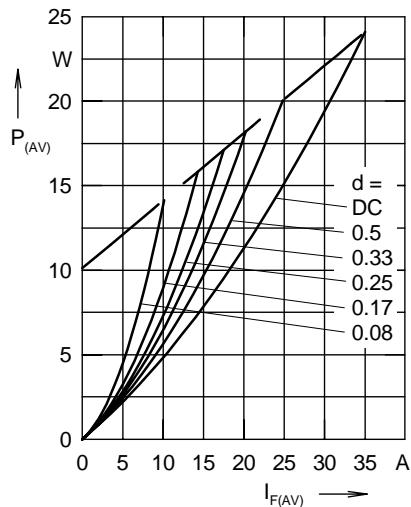


Fig. 5 Forward power loss characteristics

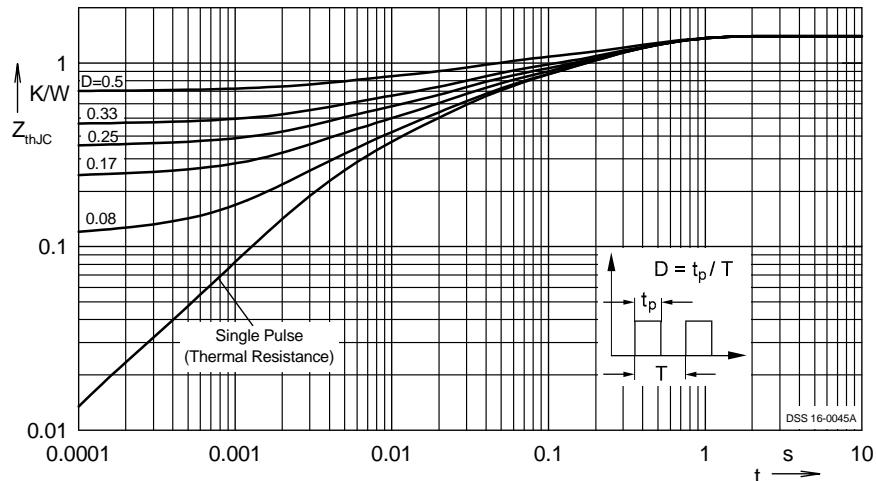


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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