

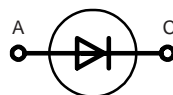
Power Schottky Rectifier

$$I_{FAV} = 10 \text{ A}$$

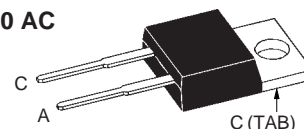
$$V_{RRM} = 60 \text{ V}$$

$$V_F = 0.62 \text{ V}$$

V_{RSM}	V_{RRM}	Type
V	V	
60	60	DSS 10-006A



TO-220 AC



A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 160^\circ\text{C}$; rectangular, $d = 0.5$	10	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	120	A
E_{AS}	$I_{AS} = 1 \text{ A}$; $L = 100 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	0.05	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10 \text{ kHz}$; repetitive	0.1	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}	$T_C = 25^\circ\text{C}$	90	W
M_d	mounting torque	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

Symbol	Conditions	Characteristic Values		
		typ.	max.	
I_R ①	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$	10	20	μA
	$T_{VJ} = 125^\circ\text{C}$ $V_R = V_{RRM}$	0.7	1.0	mA
V_F	$I_F = 10 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$		0.62	V
	$I_F = 10 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$		0.73	V
	$I_F = 20 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$		0.70	V
R_{thJC}	with heatsink compound	0.3	1.6	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

Dimensions see Outlines.pdf

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