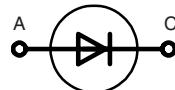


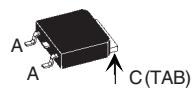
Power Schottky Rectifier

I_{FAV} = 6 A
V_{RRM} = 150 V
V_F = 0.62 V

V _{RSM} V	V _{RRM} V	Type DSS 6-015AS	marking on product 6Y150AS
150	150		



TO-252 AA



A = Anode, C = Cathode , TAB = Cathode

Preliminary data

Symbol	Conditions	Maximum Ratings	
I _{FRMS}		20	A
I _{FAV}	T _C = 160°C; rectangular, d = 0.5	6	A
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	80	A
E _{AS}	I _{AS} = 13 A; L = 180 µH; T _{VJ} = 25°C; non repetitive	tbd	mJ
I _{AR}	V _A = 1.5 • V _{RRM} typ.; f=10 kHz; repetitive	tbd	A
(dv/dt) _{cr}		tbd	V/µs
T _{VJ}		-55...+175	°C
T _{VJM}		175	°C
T _{stg}		-55...+150	°C
P _{tot}	T _C = 25°C	50	W
Weight	typical	0.3	g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I _R ①	T _{VJ} = 25°C V _R = V _{RRM} T _{VJ} = 125°C V _R = V _{RRM}	0.3 2.5	mA mA
V _F	I _F = 6 A; T _{VJ} = 125°C I _F = 6 A; T _{VJ} = 25°C I _F = 12 A; T _{VJ} = 125°C	0.62 0.78 0.71	V V V
R _{thJC}		3.0	K/W

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

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