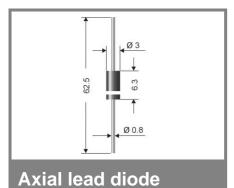
1N 5817...1N 5819



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Schottky barrier rectifiers diodes

1N 5817...1N 5819

Forward Current: 1 A

Reverse Voltage: 20 to 40 V

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

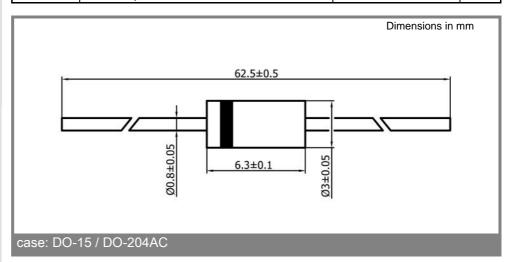
Mechanical Data

- Plastic case DO-15 / DO-204AC
- Weight approx.: 0,4 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 4000 pieces per ammo
- Valid, if leads are kept at ambient temperature at a distance of 10 mm from
- 2) $I_F = 3 A, T_i = 25 °C$
- 3) T_A = 25 °C

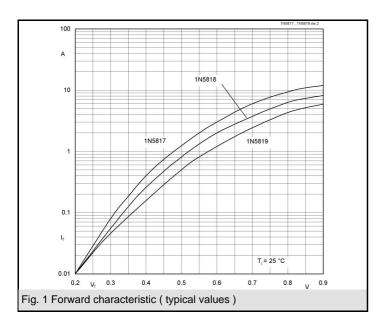
Туре	Repetitive peak reverse voltage	Surge peak reverse voltage	Max. reverse recovery time $I_F = -A$ $I_R = -A$ $I_{RR} = -A$	Max. forward voltage
	V _{RRM} V	V _{RSM} V	I _{RR} = - A t _{rr} ns	V _F ²⁾
1N 5817	20	20	-	0,750
1N 5818	30	30	-	0,875
1N 5819	40	40	-	0,900

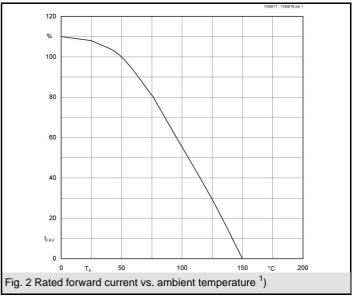
Absolute Maximum Ratings Tc = 25 °C, unless otherwise specified					
Symbol	Conditions	Values	Units		
I _{FAV}	Max. averaged fwd. current, R-load, T _A = 50 °C ¹⁾	1	Α		
I _{FRM}	Repetitive peak forward current f > 15 Hz ¹⁾	10	Α		
I _{FSM}	Peak forward surge current 50 Hz half sinus-wave ³⁾	40	Α		
i²t	Rating for fusing, t < 10 ms ³⁾	8	A²s		
R _{thA}	Max. thermal resistance junction to ambient 1)	45	K/W		
R _{thT}	Max. thermal resistance junction to terminals 1)	15	K/W		
T _j	Operating junction temperature	-50+150	°C		
T _s	Storage temperature	-50+175	°C		

Characte	ristics Tc = 25 °C	Tc = 25 °C, unless otherwise specified		
Symbol	Conditions	Values	Units	
I _R	Maximum leakage current, T _j = 25 °C; V _R = V _{RRM}	<1	mA	
	T _j = 100 °C; V _R = V _{RRM}	<10	mA	
СЈ	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF	
Q _{rr}	Reverse recovery charge $(U_R = V; I_F = A; dI_F/dt = A/ms)$	-	μC	
E _{RSM}	Non repetitive peak reverse avalanche energy (I _R = mA; T _j = °C; inductive load switched off)	-	mJ	



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