

1N5817 THRU 1N5819

Schottky Rectifier

Features

- Low power loss
- Guardring for overvoltage protection
- Extremely fast switching
- High frequency operation
- High forward surge capability
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

Typical Application

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

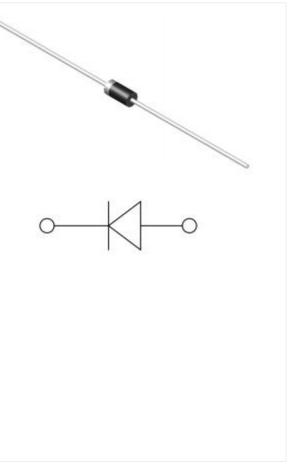
- Package: DO-204AL(DO-41)
 Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color Band denotes cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	1N58		
PARAMETER	PARAMETER Symbol Unit Conditions		17	18	19	
Repetitive Peak Reverse Voltage	VRRM	V		20	30	40
Average Rectified Output Current	I _{F(AV)}	А	60Hz Half-sine wave, Resistance load, Ta(FIG.1)	1.0		
Surge(Nonrepetitive)Forward			60HZ sine wave, 1 cycle,	30		
Current	IFSM	A	Ta=25℃			
Storage Temperature	Tstg	°C			-55 ~ +150	
Junction Temperature	Tj	°C			-55 ~ +150	

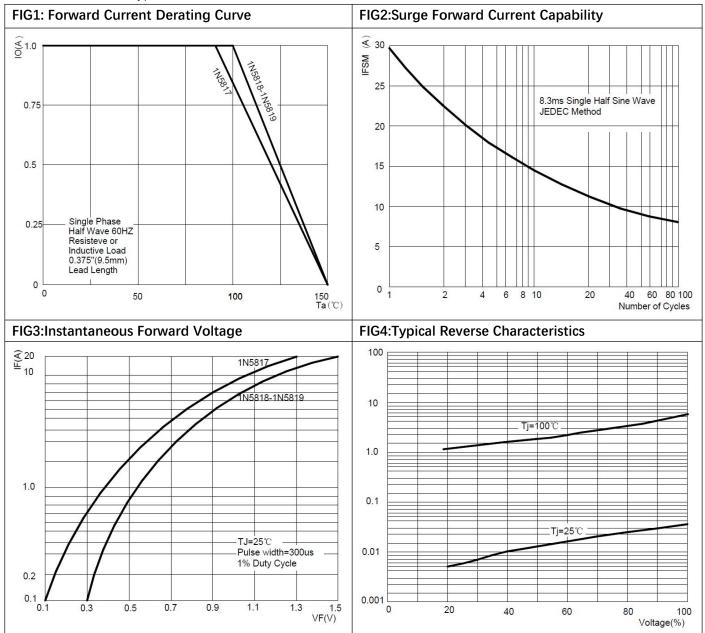
Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		1N58		
PARAMETER Symbol		Unit	Conditions		17	18	19
Peak Forward Voltage	Vfm	V	I _{FM} =1.0A		0.45	0.55	0.6
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	Ta=25 ℃	1.0		
	I _{RRM2}			Ta=125℃	20		
Thermal Resistance(Typical)	Rej-a	°C/W	Between junction and ambient		50		





■ Characteristics (Typical)

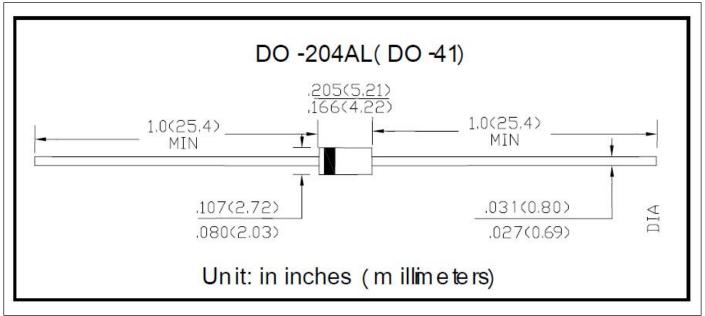




Ordering Information (Example)

PREFERED	PACKAGE CODE		INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N5817~1N5819	DO-204AL(DO-41)	5000	5000	50000	Таре

Outline Dimensions





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