



# **Schottky Barrier Rectifier**



#### **Features**

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

#### **Typical Applications**

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 the cathode end

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

PARAMETER	SYMBOL	UNIT	1N5817	1N5818	1N5819
Device marking code			1N5817	1N5818	1N5819
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	20	30	40
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	Io	Α	1.0		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Ta=25°C	I <sub>FSM</sub>	Α	30		
Storage Temperature	T <sub>stg</sub>	$^{\circ}$	-55 ~+150		
Junction Temperature	Tj	$^{\circ}$	-55 ~+125		

#### **■Electrical Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N5817	1N5818	1N5819	
Maximum instantaneous forward voltage drop per diode	VF	V	I <sub>FM</sub> =1.0A	0.45	0.55	0.6	
Maximum DC reverse current	IR	mA			0.2	2	
at rated DC blocking voltage per diode	ir.	ш	T <sub>a</sub> =100℃	20			
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	60	50		

## 1N5817 THRU 1N5819

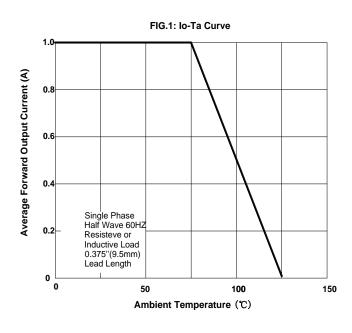
**■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

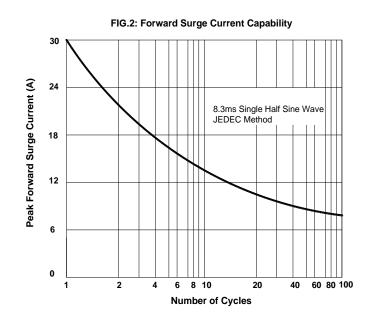
PARAMETER	SYMBOL	UNIT	1N5817	1N5818	1N5819
Thermal Resistance	R <sub>eJ-A</sub>	℃W	50		

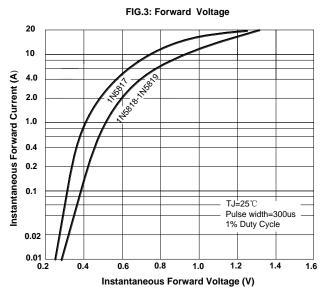
**■**Ordering Information (Example)

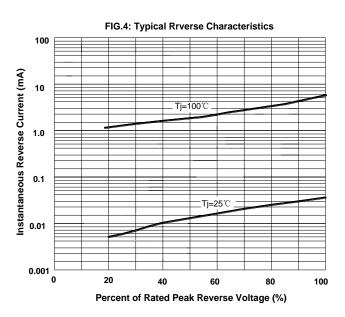
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N5817~1N5819	D1	Approximate 0.27	Approximate 5000	5000	50000	Таре
1N5817~1N5819	C1	Approximate 0.27	Approximate 1000	1000	50000	Bulk

## ■ Characteristics(Typical)





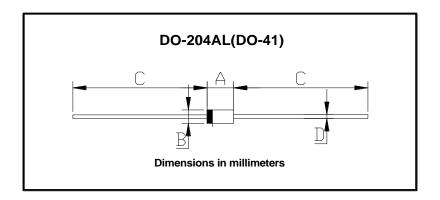






# 1N5817 THRU 1N5819

## **■ Outline Dimensions**



DO-204AL(DO-41)					
Dim	Min	Max			
Α	4.22	5.21			
В	2.03	2.72			
С	25.4	/			
D	0.69	0.86			



## 1N5817 THRU 1N5819

#### **Disclaimer**

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// <a href="http://www.21yangjie.com">www.21yangjie.com</a>, or consult your nearest Yangjie's sales office for further assistance.

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Yangjie manufacturer:

Other Similar products are found below:

CUS06(TE85L,Q,M) MA4E2039 D1FH3-5063 MBR0530L-TP MBR10100CT-BP MBR30H100MFST1G MMBD301M3T5G PMAD1103-LF PMAD1108-LF RB160M-50TR RB520S-30 RB551V-30 DD350N18K DZ435N40K DZ600N16K BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 IDL02G65C5XUMA1 NSR05F40QNXT5G NSVR05F40NXT5G JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SBAT54CWT1G SBM30-03-TR-E SBS818-TL-E SK32A-LTP SK33A-TP SK34A-TP SK34B-TP SMD1200PL-TP ACDBN160-HF SS3003CH-TL-E STPS30S45CW PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MBR1240MFST1G MBRB30H30CT-1G BAS28E6433HTMA1 BAS 70-02L E6327 HSB123JTR-E JANTX1N5712-1 VS-STPS40L45CW-N3 DD350N12K SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK110-LTP