



1A, 20V - 40V Schottky Barrier Rectifiers

FEATURES

- Low forward voltage drop
- Guardring for overvoltage protection
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

MECHANICAL DATA

Case: DO-204AL (DO-41)

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Indicated by cathode band **Weight:** 0.33 gram (approximately)





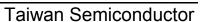


DO-204AL (DO-41)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	1N5817	1N5818	1N5819	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V	
Maximum RMS voltage	V_{RMS}	14	21	28	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	V	
Maximum average forward rectified current	I _{F(AV)}	1			Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30			А	
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	0.45	0.55	0.60	V	
Maximum reverse current @ rated VR $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	I _R	1 10		mA		
Typical junction capacitance (Note 2)	CJ	55			pF	
Voltage rate of change (Rated V _R)	dV/dt	10000			V/µs	
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	45 100		°C/W		
Operating junction temperature range	TJ	- 55 to +125			°C	
Storage temperature range	T _{STG}	- 55 to +125			°C	

Note 1: Pulse test with PW=300 µs, 1% duty cycle

Note 2: Measure at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.





ORDERING INFORMATION						
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
	SUFFIX		SUFFIX (*)			
1N581x (Note 1)	Н	A0		DO-41	3,000 / Ammo box (52mm taping)	
		R0	G	DO-41	5,000 / 13" Paper reel	
		R1	G	DO-41	5,000 / 13" Paper reel (Reverse)	
		В0		DO-41	1,000 / Bulk packing	

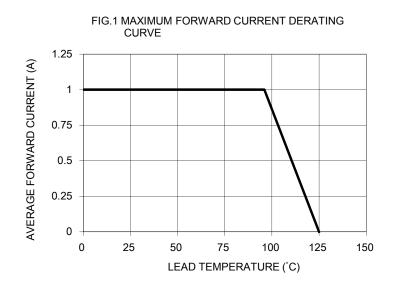
Note 1: "x" defines voltage from 20V (1N5817) to 40V (1N5819)

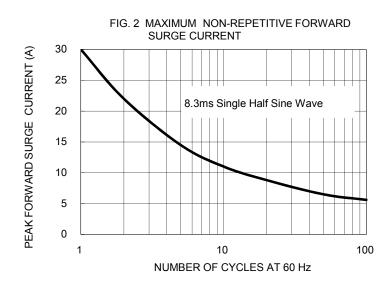
^{*:} Optional available

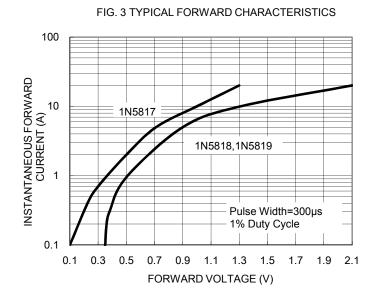
EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
1N5817HA0G	1N5817	Н	A0	G	AEC-Q101 qualified Green compound	

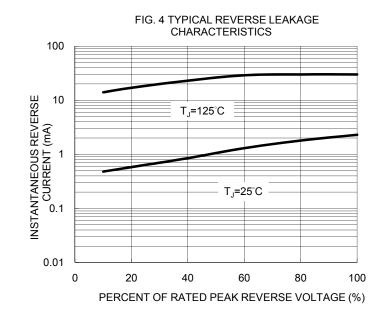
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



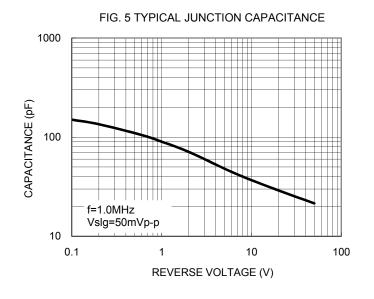


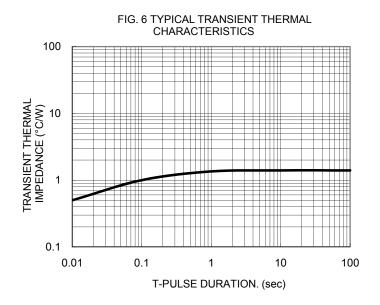






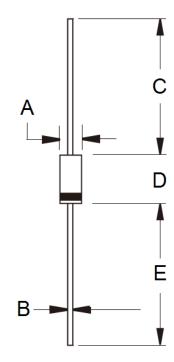






DIMENSIONS

DO-204AL (DO-41)



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	2.00	2.70	0.079	0.106	
В	0.71	0.86	0.028	0.034	
С	25.40	-	1.000	-	
D	4.20	5.20	0.165	0.205	
Е	25.40	-	1.000	-	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code



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