

LOW Vf SCHOTTKY BARRIER RECTIFIER

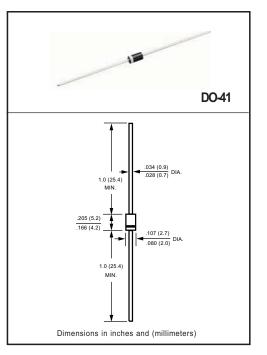
VOLTAGE RANGE 20 to 40 Volts CURRENT 0.2 Ampere

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	02N5817	02N5818	02N5819	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T_A =110°C	IO	0.2			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60			Amps
Typical Current Squared Time	I ² T	14.94			A ² S
Typical Thermal Resistance (Note 3)	R _{θJA}	50			°C/W
Typical memai Resistance (Note 5)	R _{θJL}				
Typical Junction Capacitance (Note 1)	CJ	110			pF
Operating Temperature Range	TJ	150			٥C
Storage Temperature Range	T _{STG}	-55 to + 150			۰C

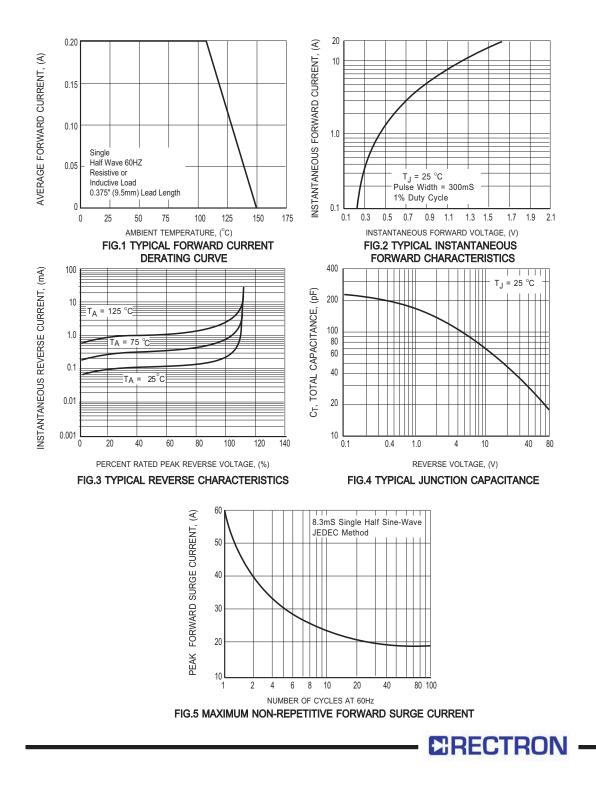
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTIC	SYMBOL	02N5817	02N5818	02N5819	UNITS	
Maximum Instantaneous Forward Voltage a	VF	.28			Volts	
Maximum Average Reverse Current	@T _A = 25°C			mAmps		
at Rated DC Blocking Voltage	@T _A = 100°C	- ^I R			mAmps	
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.						
2 "Fully ROHS compliant" "100% Sn plating (Pb-free)"					REV:B	

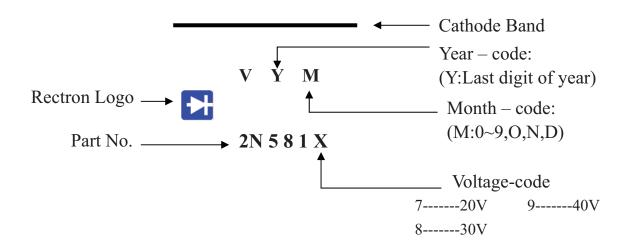
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.





Marking Description



ERECTRON

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-В	1,000	194*75*21	415*220*255	50,000	16.2

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-T	5,000	5,000	5.0	52	330	355*350*335	20,000	10.49

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-41	-F	3,000	5.0	52	255*73*100	400*268*225	30,000	13.0
DO-41	-E	3,000	5.0	26	256*48*94	365*270*217	42,000	12.41

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