Power	Diodes
Schottky	y





Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data:

Cases	: Moulded plastic DO-41
Lead	: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity	: Colour band denotes cathode end
High Temperature	: 260°C / 10 seconds / 0.375 inches, 9.5 mm) lead
Soldering Guaranteed	: lengths at 5 lbs., (2.3 kg) tension

Maximum Ratings and Electrical Characteristics

Rating 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%

Parameter	Symbol	1N5817+	1N5818+	1N5819+	Unit	
Maximum Recurrent Peak Reverse Voltage	Vrrm	20 30 40		40		
Maximum RMS Voltage	Vrms			28	V	
Maximum DC Blocking Voltage	VDC			40		
Maximum Average Forward Rectified Current 0.375 Inches (9.5 mm) Lead Length at TL = 90°C	l(AV)		1		•	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	IFSM				
Maximum Instantaneous Forward Voltage at 1 A	VF	0.45	0.55	0.6	V	
Maximum Instantaneous Forward Voltage at 3 A	VF	0.75	0.875	0.9	V	
Maximum DC Reverse Current at T _A = 25°C at Rated DC Blocking Voltage at T _A = 100°C	IR		1 10		mA	
Typical Thermal Resistance (Note 1)	Reja Rejc	100 45		°C/W		
Typical Junction Capacitance (Note 2)	CJ		55		рF	
Operating Temperature Range	TJ			°C		
Storage Temperature Range	Tstg	65 to + 125				

Notes:

- 1. Mount on Cu-Pad Size 5 × 5 mm on PCB
- 2. Measured at 1 MHz and applied reverse voltage of 4 V DC

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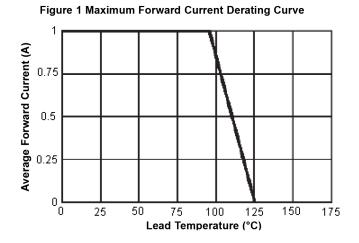


Specification Table

I _{F(av)} Maximum (A)	V _{RRM} Maximum (V)	VF (V) at IF = 1A	I г ѕм (А)	Length	Diameter	Package	Part Number
	20	0.45					1N5817+
1	30	0.55	25	5.2	2.7	DO-41	1N5818+
	40	0.87					1N5819+

Dimensions : Millimetres

Ratings and Characteristic Curves





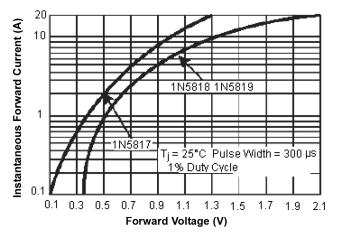


Figure 2 Typical Junction Capacitance

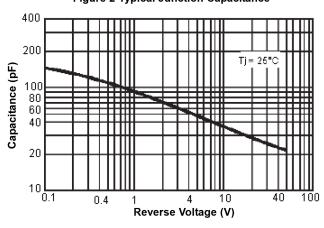
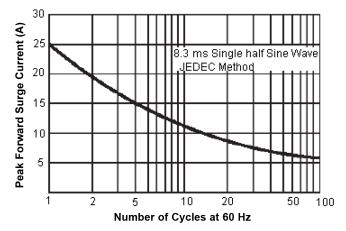


Figure 4 Maximum Non-Repetitive Forward Surge Current

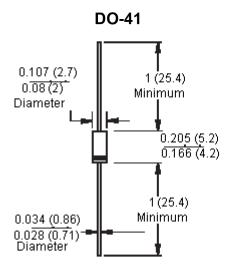


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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number		
Schottky Rectifier, 20V, 1A	1N5817+		
Schottky Rectifier, 30V, 1A	1N5818+		
Schottky Rectifier, 40V, 1A	1N5819+		

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