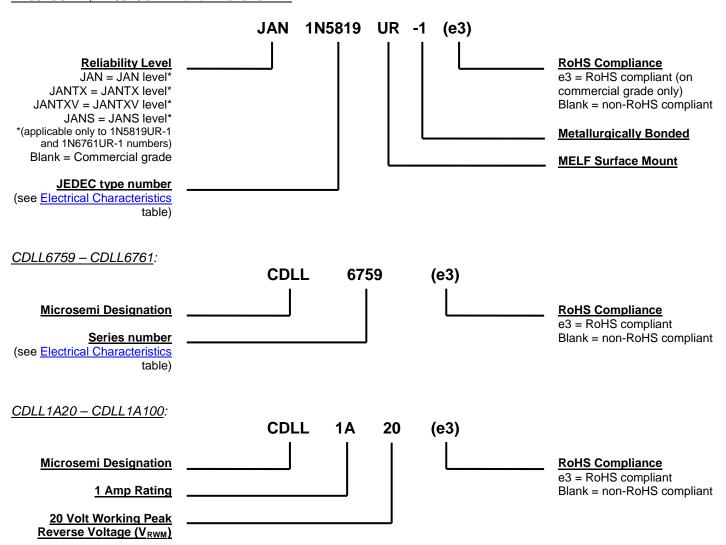


MECHANICAL and PACKAGING

- CASE: Hermetically sealed glass DO-213AB MELF (LL41) package.
- TERMINALS: Tin/lead or RoHS compliant matte-tin finished copper clad steel available (commercial grade only). Solderable per MIL-STD-750, method 2026.
- · MARKING: Cathode band.
- POLARITY: Diode to be operated with the banded end positive with respect to the opposite end for Zener regulation.
- MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) of this device is approximately +6PPM/°C. The COE of the Mounting Surface System should be selected to provide a suitable match with this device.
- TAPE & REEL optional: Standard per EIA-481-1-A with 12 mm tape. Consult factory for quantities.
- WEIGHT: Approximately 0.05 grams.
- See Package Dimensions on last page.

PART NOMENCLATURE

1N5818UR-1, 1N5819UR-1* and 1N6761UR-1*:





SYMBOLS & DEFINITIONS				
Symbol	Definition			
Ст	Total Capacitance: The total small signal capacitance between the diode terminals of a complete device.			
f	frequency			
I _{FSM}	Surge Peak Forward Current: The forward current including all nonrepetitive transient currents but excluding all repetitive transients (ref JESD282-B)			
I _R	Reverse Current: The dc current flowing from the external circuit into the cathode terminal at the specified voltage V _R .			
Io	Average Rectified Output Current: The output current averaged over a full cycle with a 50 Hz or 60 Hz sine-wave input and a 180 degree conduction angle.			
$V_{(BR)}$	Minimum Breakdown Voltage: The minimum voltage the device will exhibit at a specified current.			
V _F	Forward Voltage: The positive anode-cathode voltage the device will exhibit at a specified I _F current.			
V _R	Reverse Voltage: The dc voltage applied in the reverse direction below the breakdown region.			
V _{RWM}	Working Peak Reverse Voltage: The maximum peak voltage that can be applied over the operating temperature range excluding all transient voltages (ref JESD282-B). Also sometimes known as PIV.			

*ELECTRICAL CHARACTERISTICS @ T_A = 25 °C unless otherwise specified

TYPE NUMBER	WORKING PEAK REVERSE VOLTAGE (1)	MAXIMUM FORWARD VOLTAGE		MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE		MAXIMUM CAPACITANCE @ V _R = 5 VOLTS f ≤ 1.0 MHz
	V _{RWM}	V _F @ 0.1A	V _F @ 1.0 A	I _{RM} @ 25°C	I _{RM} @ 100°C	Ст
	Volts	Volts	Volts	mA	mA	pF
1N5818UR-1*	30	0.36	0.60	0.10	5.0	0.9
†1N5819UR-1*	45	0.34	0.49	0.05	5.0	70
CDLL6759	60	0.38	0.69	0.10	6.0	NA
CDLL6760	80	0.38	0.69	0.10	6.0	NA
†1N6761UR-1*	100	0.38	0.69	0.10	12.0	70
CDLL1A20	20	0.36	0.60	0.10	5.0	0.9
CDLL1A30	30	0.36	0.60	0.10	5.0	0.9
CDLL1A40	40	0.36	0.60	0.10	5.0	0.9
CDLL1A50	50	0.36	0.60	0.10	5.0	0.9
CDLL1A60	60	0.38	0.69	0.10	12.0	NA
CDLL1A80	80	0.38	0.69	0.10	12.0	NA
CDLL1A100	100	0.38	0.69	0.10	12.0	NA

^{*}Part number may also be ordered as CDLL5818 or CDLL5819 or CDLL6761.

[†] Also available with JAN, JANTX, JANTXV, and JANS military qualifications.



GRAPHS

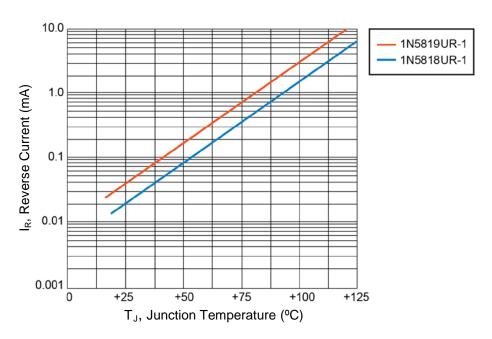


FIGURE 1
Typical Reverse Leakage Current at Rated PIV (PULSED)

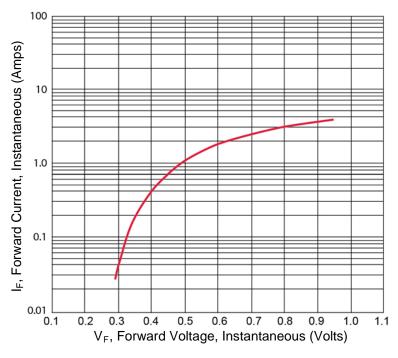


FIGURE 2
Typical Forward Voltage for 1N5819UR-1



GRAPHS (continued)

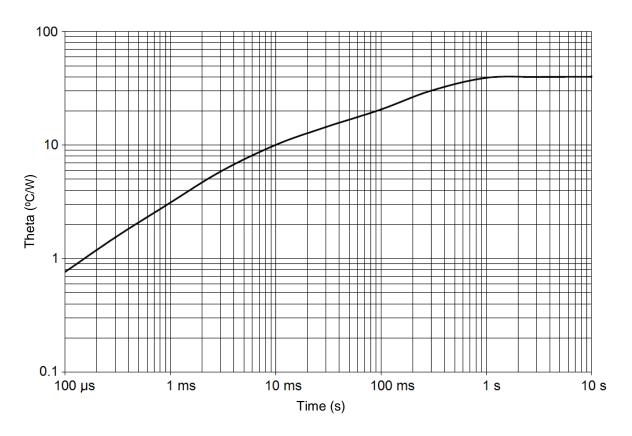
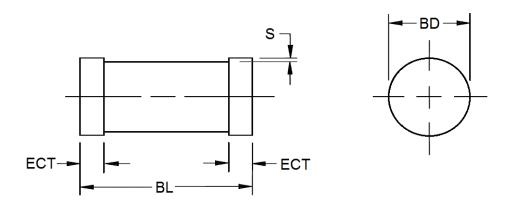


FIGURE 3
Thermal impedance for 1N5819UR-1 and 1N6761UR-1 (DO-213AB)



PACKAGE DIMENSIONS

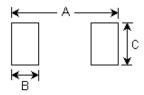


	Dimensions					
Symbol	ln	ch	Millimeters			
	Min	Max	Min	Max		
BD	0.094	0.105	2.39	2.67		
BL	0.189	0.205	4.80	5.21		
ECT	0.016	0.022	0.41	0.56		
S	0.001 min		0.03	3 min		

NOTES:

- 1. Dimensions are in inches. Millimeters are given for information only.
- 2. Gap not controlled, shape of body and gap not controlled.
- 3. In accordance with ASME Y14.5M, diameters are equivalent to Φx symbology.

PAD LAYOUT



Ltr	Inch	mm
Α	0.276	7.00
B 0.070		1.8
С	0.110	2.8