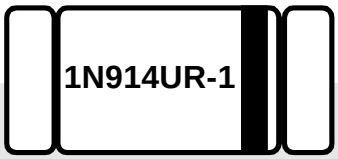
MINI-MELF-SMD

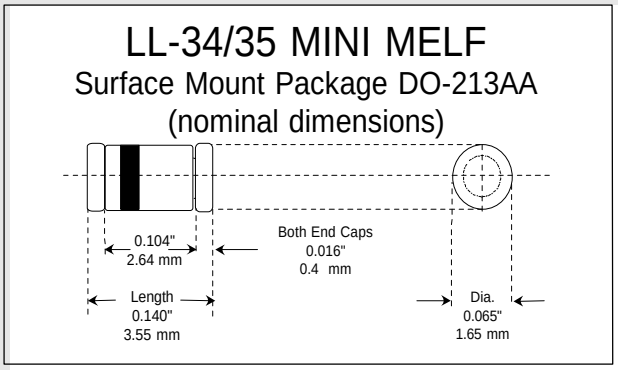


Silicon Switching Diode

1N914UR-1 / LL914

Applications

Used in general purpose applications, where performance, space and switching speed are important.



Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability
- Also comes in DO-35 glass package
- Full UR approval to Mil-S-19500/116
- Available up to JANTXV levels
- "S" level screening available to Source Control Drawings

Maximum Ratings	Symbol	Value	Unit
Peak Inverse Voltage	PIV	100 (Min.)	Volts
Average Rectified Current	I_{Avg}	200	mAmps
Continuous Forward Current	I_{Fdc}	300	mAmps
Peak Surge Current (t_{peak} = 1 sec.)	I_{peak}	1.0	Amp
BKC Power Dissipation @ end cap T = 50 °C	P_{tot}	500	mWatts
Storage & Operating Temperature Range	$T_{St\ \&\ Op}$	-65 to +200	° C

Electrical Characteristics @ 25 °C	Symbol	Maximum Limits	Unit
Forward Voltage Drop @ I_F = 10 mA	V_F	1.0	Volts
Forward Voltage Drop @ I_F = 100 mA	V_F	1.2	Volts
Reverse Leakage Current @ V_R = 20 V	I_R	0.025 (50 @ 150 °C)	µA
Reverse Leakage Current @ V_R = 75 V	I_R	0.50 (100 @ 150 °C)	µA
Capacitance @ V_R = 0 V, f = 1mHz	C_T	4.0	pF
Capacitance @ V_R = 1.5 V , f = 1mHz	C_T	2.8	pF
Reverse Recovery Time (note 1)	t_{rr}	5.0	nSecs
Forward Recovery Time (note 2)	V_{fr}	20	nSecs

Note 1: $I_F = I_R$ = 10 mA, R_L = 100 Ohms Note 2: I_F = 50 mA dc

To order MIL parts, use the 1N914UR-1 number with the appropriate JAN, JTX or JTXV prefix.

1N914-1 DO-35 glass leaded parts also available in both commercial and military versions.

Microsemi

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