Silicon Switching Diode Series 1N4454 and 1N4454-1

Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/144 •
- Metallurgically Bonded •
- Hermetically Sealed ٠
- **Double Plug Construction** •

Maximum Ratings @ 25°C

Operating & Storage Temperature: -55 °C to +175 °C Operating Current: 200mA, T_A= +75 °C **Derating Factor:** 2.0mA dc/°C above TA= +75 °C @ L = 3/8Surge Current A: 2A (pk) $t_p = 8.3 \text{ mS}, V_{RM} = 0$ 4A (pk) $t_p = 1 us$, $V_{RM} = 0$ Surge Current B:

DC Electrical Characteristics

V _{BR} @5µA	V _{RWM}	۱ ₀	$V_{f1}@I_F = 10 \text{ mA}$	$V_{f2}@I_F = 10 \text{ mA}$ TA = 150°C	t _{rr}	I _{R1} @ 50 V dc	I _{R2} @ 50 V TA = 150°C	CAPACITANCE @ 0 V
Volts	Volts (pk)	mA	V dc	V dc	n sec	μΑ	μΑ	pF
75	50	200	0.8	0.7	4	0.1	100	2.0

Outline Drawing



LEADED DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/144, DO - 35 LEAD MATERIAL: Copper clad steel LEAD FINISH: Tin / Lead THERMAL RESISTANCE: ($R_{\Theta,JL}$): 250 °C/W maximum at L = 0.375 in THERMAL IMPEDANCE: (ZOIX): 70 °C/W maximum

POLARITY: Cathode end is banded.







A passion for performance





Graphs





Typical Reverse Current vs Reverse Voltage

NOTE: All temperatures shown on graphs are juction temperatures.

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.