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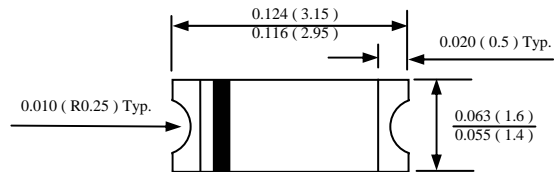
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CHIP HIGH SPEED SWITCHING DIODES

SN4148-LFR

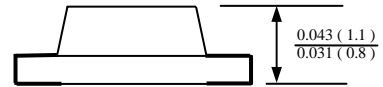
FEATURES

- DESIGNED FOR MOUNTING ON SMALL SURFACE
- HIGH SPEED
- HIGH MOUNTING CAPABILITY , STRONG SURGE WITHSTAND , HIGH RELIABILITY
- ROHS



MECHANICAL DATA

- CASE: 1206(3216),MOLDED PLASTIC, DIMENSIONS IN MILLIMETERS
- TERMINALS: SOLDER PLATED , SOLDERABLE PER MIL-STD-750 , METHOD 2026
- POLARITY :INDICATED BY CATHODE BAND
- MOUNTING POSITION: ANY



RATINGS	SYMBOL	SN4148-LFR	UNITS
REVERSE VOLTAGE	V_R	75	V
PEAK REVERSE VOLTAGE	V_{RM}	100	V
RECTIFIED CURRENT (AVERAGE) HALF WAVE RECTIFICATION WITH RESIST LOAD AT $T_{amb} = 25^{\circ}C$ AND $f \geq 50HZ$ (NOTE 1)	I_O	150	mA
SURGE FORWARD CURRENT AT $T_P = 1\mu S$ AND $T_J = 25^{\circ}C$	I_{FSM}	4.0	mA
SURGE FORWARD CURRENT AT $T_P = 1 S$ AND $T_J = 25^{\circ}C$		1.0	
POWER DISSIPATION AT $T_{amb}=25^{\circ}C$	PD	350	mW
JUNCTION TEMPERATURE	T_J	175	$^{\circ}C$
STORAGE TEMPERATURE RANGE	T_S	- 55 TO + 175	$^{\circ}C$

CHARACTERISTICS $T_J=25^{\circ}C$	SYMBOL	MIN	TYP	MAX	UNITS
FORWARD VOLTAGE AT $I_F=10mA$	V_F	-	-	1	V
LEAKAGE CURRENT AT $V_R=20V$	I_R	-	-	25	nA
AT $V_R=75V$		-	-	2.5	
REVERSE BREAKDOWN VOLTAGE TESTED WITH 100 μA PULSES	V_R	100	-	-	V
CAPACITANCE AT $V_F=V_R=0$	C_{TOT}	-	-	4	PF
REVERSE RECOVERY TIME FROM $I_F=10mA$ TO $I_R=1mA$ $V_R=6V$ $R_L=50\Omega$	T_{RR}	-	-	4	nS

NOTE : 1. LEADS KEPT AT AMBIENT TEMP.

RATINGS AND CHARACTERISTIC CURVE SN4148-LFR

FIG. 1 -FORWARD CHARACTERISTICS

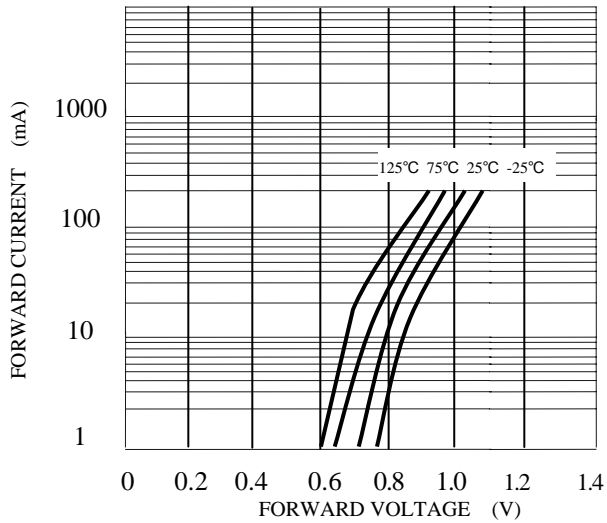


FIG. 2 -REVERSE CHARACTERISTICS

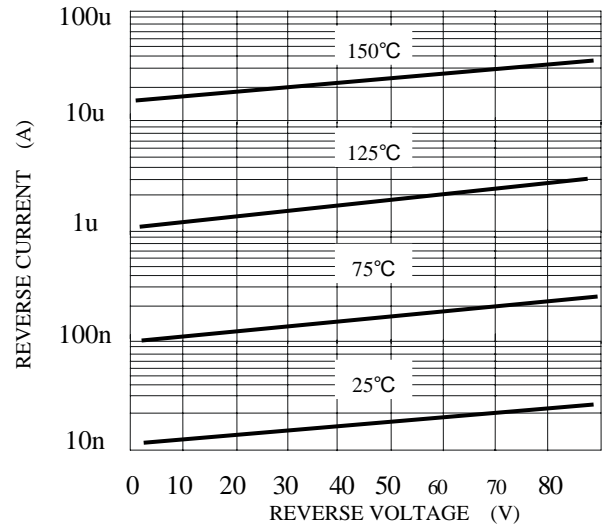


FIG. 3 -CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

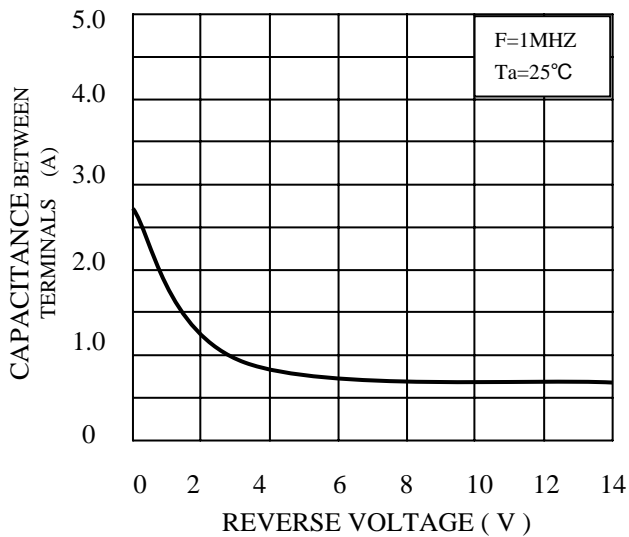


FIG. 4 -DERATING CURVE

