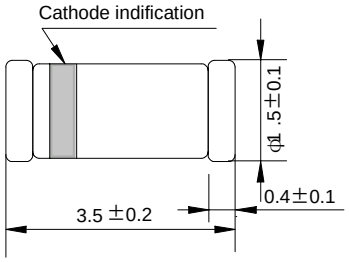
FAST SWITCHING DIODES

LL4148

FEATURES

Silicon epitaxial diode
500mW power dissipation
High speed switching diode



LL-34(SOD-80) Dimensions in millimeters

MECHANICAL DATA

Polarity:Color band denotes cathode
Case: LL-34 glass case
Weight: Approx 0.031 grams

Absolute Maximum Ratings (TA=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse voltage	V_R	75	v
Peak reverse voltage	V_{RM}	100	v
Average Rectified Current	I_O	150	mA
Non-repetitive Peak Forward Current	I_{FSM}	500 1)	mA
Pow er dissipaton at tamb=25°C	P_{tot}	500	mW
Junction temperature	T_J	175	°C
Storage temperature range	T_{STG}	-55-175	°C

1) Valid prov ided that electrodes are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS (Tamb=25 ℃ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward voltage @ IF=10mA	V_F			1.0	v
Leakage current at V_R=20V	I_R			25	nA
at V_R=75V	I_R			5	uA
at V_R=20V T_J=150°C	I_R			50	uA
Capacitance at V_F=V_R=0V	C_{tot}			4	pF
Voltage rise when switching on tested with 50mA pulses tp=0,1uS , rise time＜30ns, f p=5 to 100KHz	V_{fr}			2.5	V
Reverse recovery time from I_F=10mA VR=6V,RL=100 ,at IR=1mA	trr			4.0	nS
Thermal resistance junction to ambient	$R_{\theta JA}$			350	K/W
Rectification effciency at 100MHz,V_{RF}=2V	η V	0.45			

LL4148 Typical Characteristics

AMBIENT TEMPERATURE

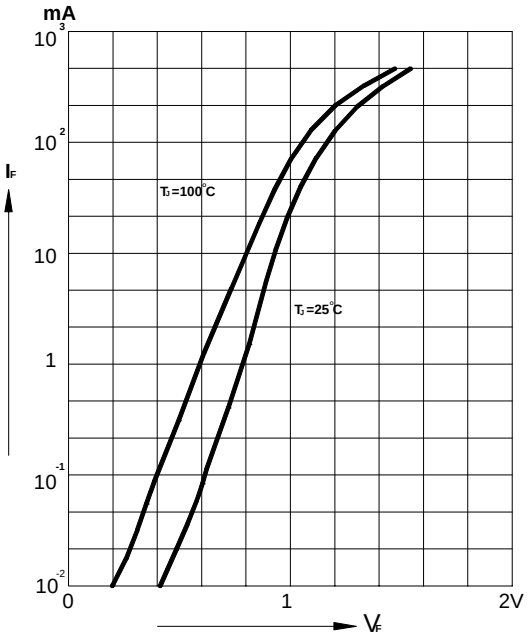


FIG.2– FORWARD CHARACTERISTICS

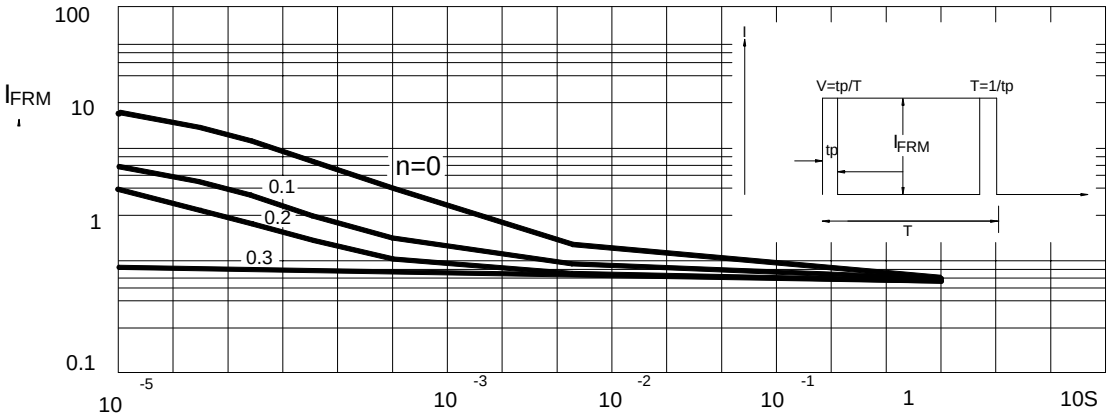


FIG.3-ADMISSIBLE REPETITIVE PEAK FORWORD CURRENT VERSUS PULSE DURATION

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching ***category:***

Click to view products by Hottech ***manufacturer:***

Other Similar products are found below :

MMBD3004S-13-F RD0306T-H DSE010-TR-E BAV17-TR BAV19-TR 1N3611 NTE156A NTE574 NTE6244 1SS181-TP 1SS193,LF 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 FC903-TR-E 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR 1SS226-TP RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G CDSZC01100-HF LL4150-M-08 BAV199E6433HTMA1 BAS28-7 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G RGP30D-E3/73 BAV99TQ-13-F BAS21DWA-7 NTE6250 NTE582-4 NTE582-6 MMDB30-E28X