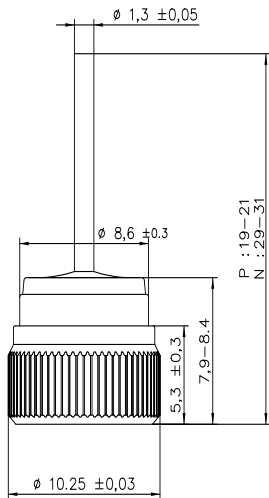


Description

Mechanical Dimensions



LUCAS

Dimensions in inches and (millimeters)

Features

- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

Mechanical Data

- ★ Case: OFC Heat Sink
- ★ Encap: Epoxy Sealed Rated
UL94V-0
- ★ Weight: 4.0 - 4.5 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

	SYMBOL	FL2518	FL2520	FL2530	UNIT
Maximum Peak Repetitive Reverse Voltage@Irrm=10uA	VRRM	19-24	24-32	24-45	V
Maximum RMS Voltage	VRMS	16	20	28	V
Maximum DC Blocking Voltage(TA=25°C)	VB	16	20	28	V
Maximum Average Forward Current Io@Tc=150°C 60 Hz, resistive or inductive load	I(AV)	25			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	350			A
Maximum Inst. Forward Voltage Drop, IF at 80Amp	VF	1.2			V
Maximum DC Reverse Current (VB)@TJ=25°C At Rated DC Blocking Voltage (VB)@TJ=175°C	IR	10 300			uA uA
Operating Junction and Storage Temperature Range	TJ, TSTG	-40 to +175			°C



RATINGS AND CHARACTERISTIC CURVES

FL2518 – FL2530

FIG.1 - FORWARD CURRENT DERATING CURVE

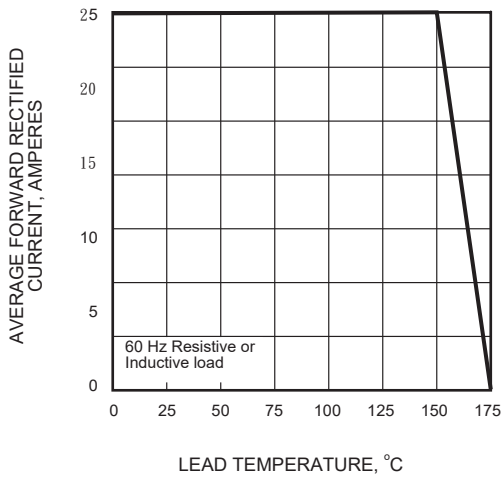


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

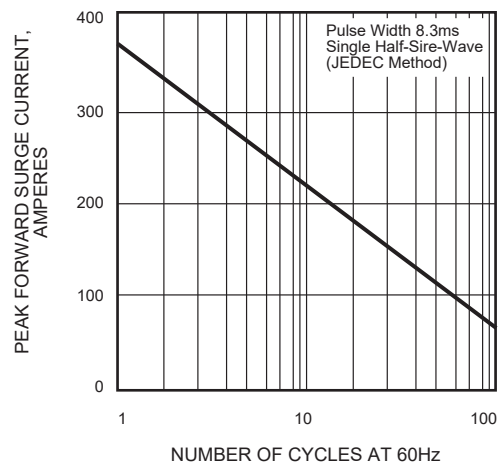


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

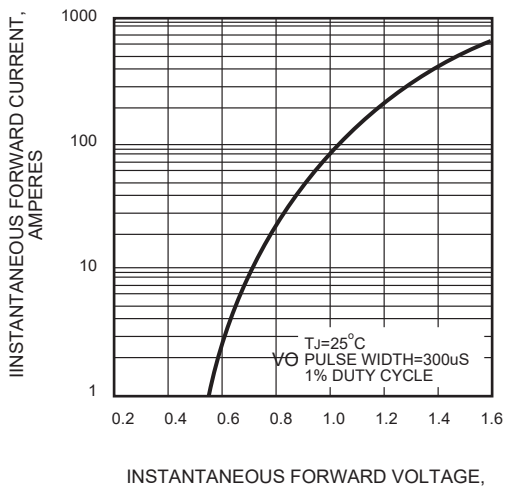


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

