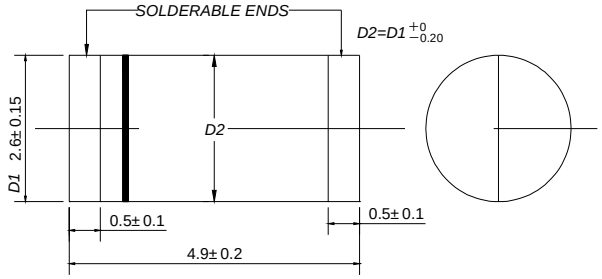
DLSS22 THRU DLSS210

SURFACE MOUNT SCHOTTKY

REVERSE VOLTAGE: 20 --- 100 V CURRENT: 2.0 A

DO - 213AB



Dimensions in millimeters

FEATURES

- ◇ Plastic package has Underwriters Laborator Flammability Classification 94V-0
- ◇ For surface mounted applications
- ◇ Low profile package
- ◇ Built-in strain relief
- ◇ Metal silicon junction, majority carrier conduction
- ◇ High surge capability
- ◇ High current capability,low forward voltage drop
- ◇ Low power loss,high effciency
- ◇ For use in low voltage high frequency inverters,free wheeling and polarity protection applications
- ◇ Guardring for overvoltage protection
- ◇ High temperature soldering guaranteed:250°C/10 seconds at terminals

MECHANICAL DATA

- ◇ Case:JEDEC DO-213AB ,molded plastic over passivated chip
- ◇ Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.0046 ounces, 0.116 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

TWGMC Catalog Number		DLSS22	DLSS23	DLSS24	DLSS26	DLSS28	DLSS210	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	60	80	100	V
Maximum RMS voltage	V_{RWS}	14	21	28	42	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	60	80	100	V
Maximum average forword rectified current at T_T(SEE FIG.1) (NOTE 2)	$I_{(AV)}$	2.0						A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	50						A
Maximum instantaneous forward voltage at 2.0A(NOTE.1)	V_F	0.5			0.7	0.79		V
Maximum DC reverse current @T_J=25°C at rated DC blocking voltage(NOTE1) @T_J=100°C	I_R	0.5 10						mA
Typical thermal resitance (NOTE2)	$R_{\theta JA}$ $R_{\theta JT}$	45 10						K/W
Operating junction and storagetemperature range	T_{STG}	-55- - - +150						^{o}C
Storage temperature range	T_J	-55- - - +150						^{o}C

NOTE: 1.Pulse test:300 µS pulse width,1%duty cycle

2. P.C.B.mounted with 0.55"X0.55"(14.0X14.0mm^2)copper pad areas

RATINGS AND CHARACTERISTIC CURVES *DLSS22 THRU DLSS210*

FIG.1 -- FORWARD DERATING CURVE

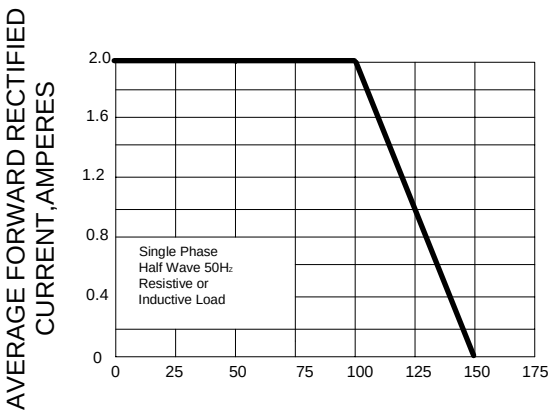


FIG.2-- PEAK FORWARD SURGE CURRENT

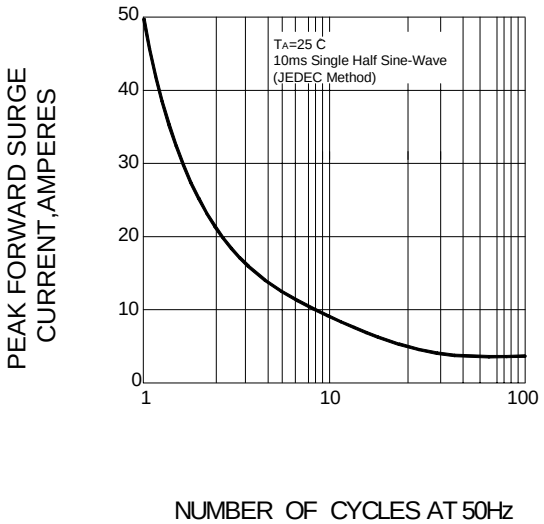


FIG.3 -- TYPICAL FORWARD CHARACTERISTICS

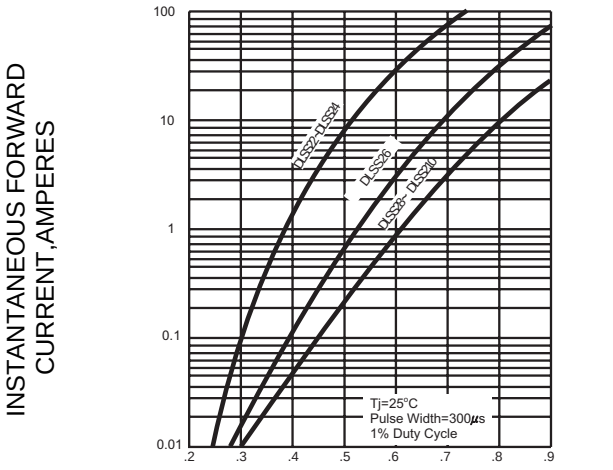


FIG.4 -- TYPICAL REVERSE CHARACTERISTICS