

10ELS1 ~ 10ELS6

PRV : 100 ~ 400 Volts
Io : 1.0 Amperes

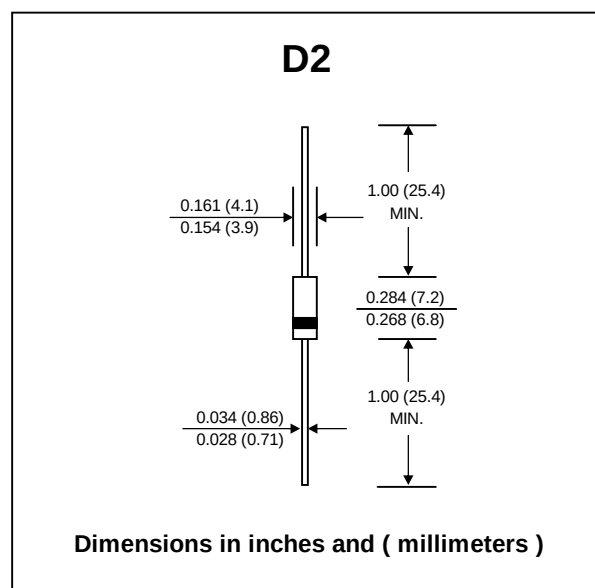
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : D2 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.465 gram

FAST RECOVERY DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	10ELS1	10ELS2	10ELS4	10ELS6	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	70	140	210	280	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	V
Maximum Average Forward Current	I _{F(AV)}	1.0				A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave	I _{FSM}	30				A
Maximum Peak Forward Voltage at I _F = 1.0 A	V _F	1.1		1.15		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _{RM}	10				μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	150				ns
Junction Temperature Range	T _J	- 65 to + 150				°C
Storage Temperature Range	T _{STG}	- 65 to + 150				°C

Note :

(1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.

RATING AND CHARACTERISTIC CURVES (10ELS1 ~ 10ELS6)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

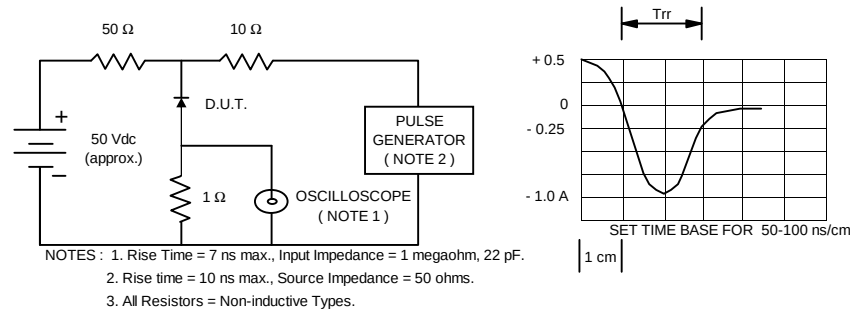


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

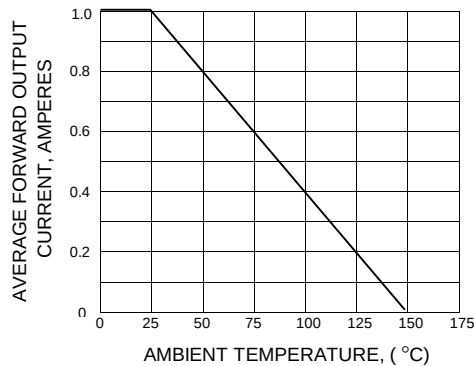


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

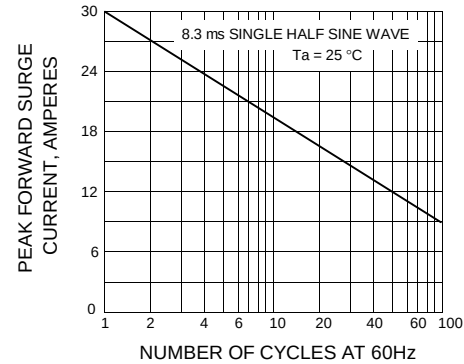


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

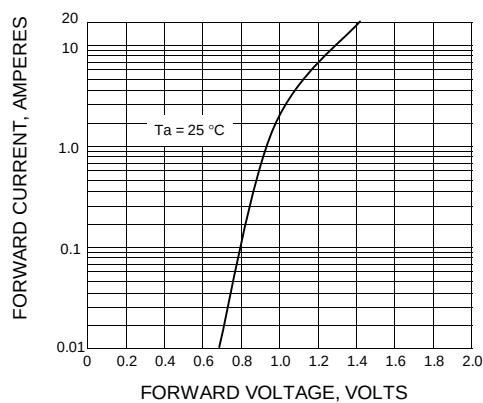


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

