

D1FL20U

PRV : 200 Volts
Io : 1.1 Ampere

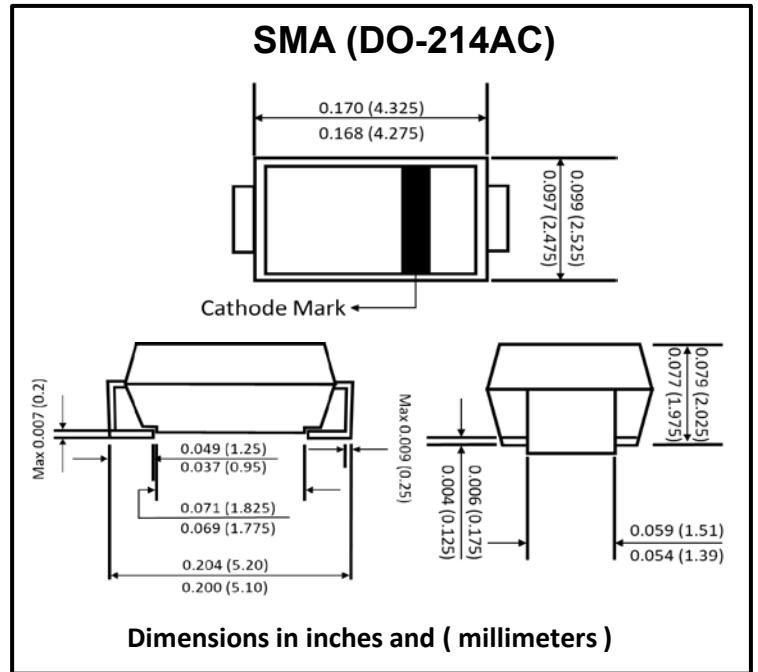
FEATURES :

- * Glass passivated junction chip
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Super fast recovery time
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.067 gram

SURFACE MOUNT SUPER FAST RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (If not specified Tl=25 °C)

RATING	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	V
Maximum RMS Voltage	VRMS	140	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Current (50 Hz sine wave, R - load , T _a = 25 °C)	I _o	1.1 (on aluminum substrate) 0.84 (on glass-epoxy substrate)	A
Maximum Peak Forward Surge Current (50 Hz sine wave, Non - repetitive 1 cycle peak value, T _j =25 °C)	IFSM	20	A
Maximum Peak Forward Voltage at I _F = 1.1 A	V _F	0.98	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10	μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35	ns
Maximum Thermal Resistance Junction to Lead	R _{θJL}	23	°C/W
Maximum Thermal Resistance Junction to Ambient	R _{θJA}	108 (on aluminum substrate) 157 (on glass-epoxy substrate)	°C/W
Storage Temperature Range	T _{STG}	- 55 to + 150	°C

Notes :

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

RATING AND CHARACTERISTIC CURVES (D1FL20U)

FIG.1 - DERATING CURVE

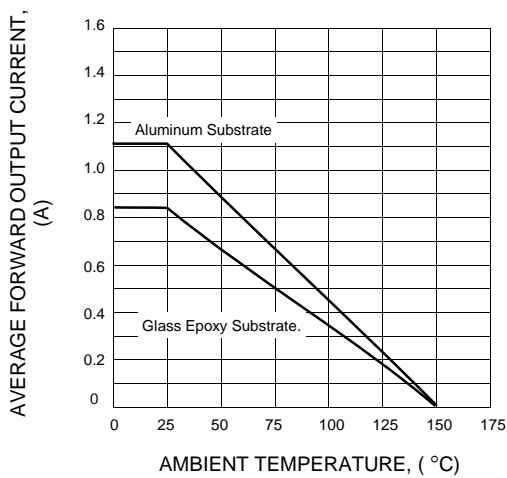


FIG.2 - PEAK SURGE FORWARD CAPABILITY

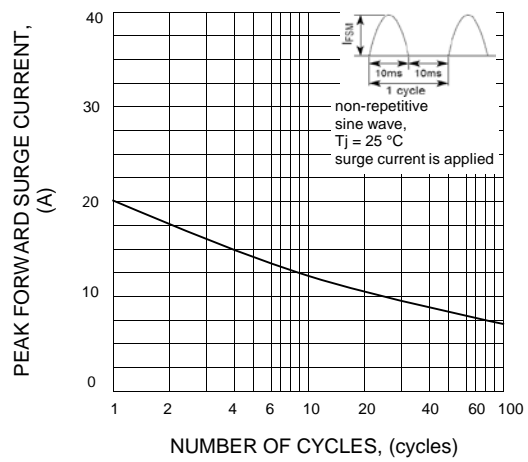


FIG.3 - FORWARD CHARACTERISTICS

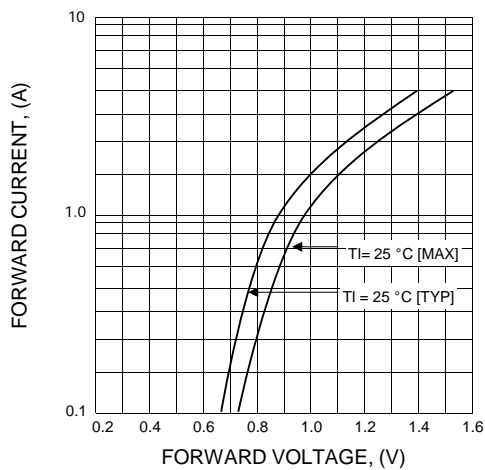


FIG.4 - JUNCTION CAPACITANCE

