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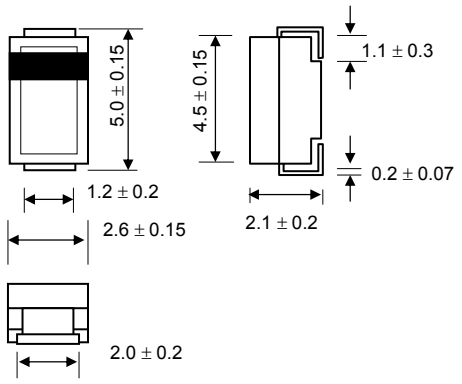
D1FS6

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

PRV : 60 Volts
Io : 1.1 Ampere

SMA (DO-214AC)



Dimensions in millimeter

FEATURES :
* Small SMT
* Tj 150 °C
* Pb / RoHS Free

APPLICATION :
* Switching power supply
* DC/DC converter
* Telecommunication

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_{RM}	60	V
Maximum Repettive Peak Surge Reverse Voltage	V_{RRSM}	65	V
Maximum Average Rectified Forward Current	I_O	1.1 (1)	A
(50 Hz sine wave, R - load , Ta - 25 °C)		0.82 (2)	
Maximum Peak Forward Surge Current (50 Hz sine wave, Non - repettitive 1 cycle peak value, Tj =125 °C)	I_{FSM}	40	A
Maximum Forward Voltage at I_F = 1.1 A (Pulse Measurement)	V_F	0.58	V
Maximum Reverse Current at $V_R = V_{RM}$ (Pulse Measurement)	I_R	1.0	mA
Typical Thermal Resistance Junction to Lead	$R_{\Theta JL}$	23	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{\Theta JA}$	108 (1)	°C/W
		157 (2)	
Operating Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Notes :
(1) On alumina substrate.
(2) On glass - epoxy substrate.

RATING AND CHARACTERISTIC CURVES (D1FS6)

FIG.1 - DERATING CURVE

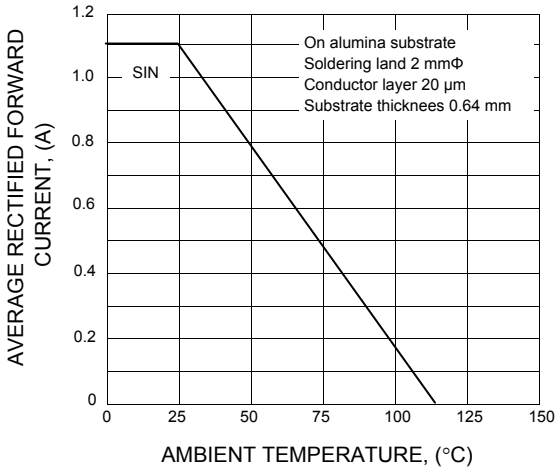


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

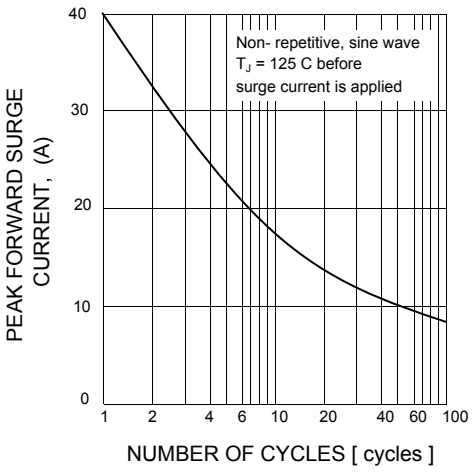


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

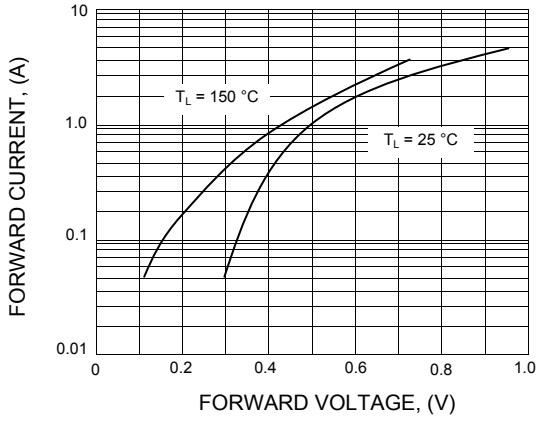


FIG.4 - TYPICAL REVERSE CHARACTERISTICS