R2AN THRU R2MN

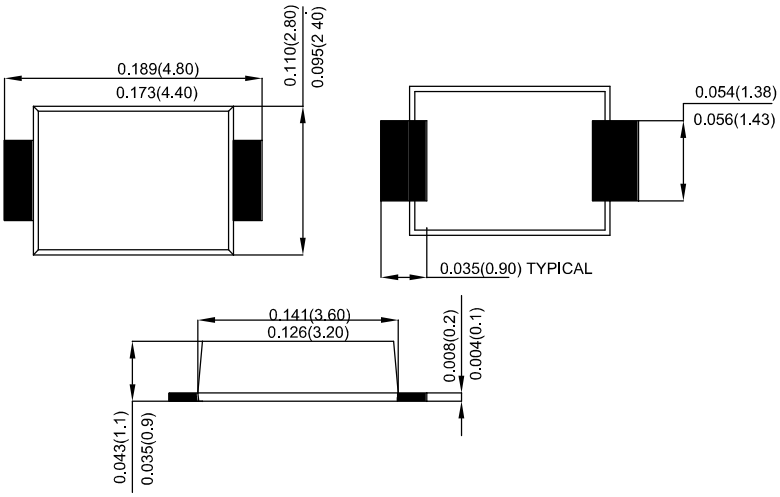
2.0AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER

迪一電子®

Features

- Fast switching for high efficiency
- Low Power Loss,High Efficiency
- High current capability
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classication Rating 94V-0

SMAF



Dimiensions in inches and (milimeters)

Mechanical Data

- Case: Molded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity:Cathode Band or Cathode Notch
- Mounting Position: Any
- Making: Type Number

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	R2AN	R2BN	R2DN	R2GN	R2JN	R2KN	R2MN	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T_L=100℃	I_O	1.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
Forward Voltage @IF=2.0A	V_{FM}	1.3							V
Peak Reverse Current @T_A =25℃	I_R	5.0							uA
At Rated DC Blocking Voltage@T_A =100℃		150							
Maximum Reverse Recovery Time (Note1)	Trr	150				250	500		ns
Typical Junction Capacitance (Note 2)	C_J	12							pF
Typical Thermal Resistance Junction to Ambient(Note 3)	$R_{\theta JA}$ $R_{\theta JL}$	100 32							℃/W
Operating Temperature Range	T_J	-55 to+150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. 8.0mm²（.013mm thick）land areas.

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FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

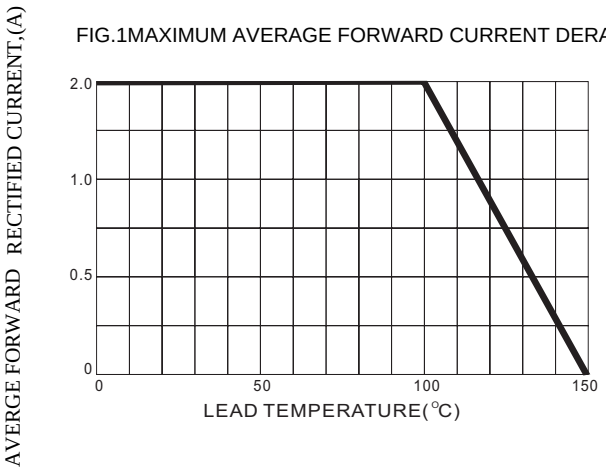

FIG.2TYPICAL FORWARD CHARACTERISTICS

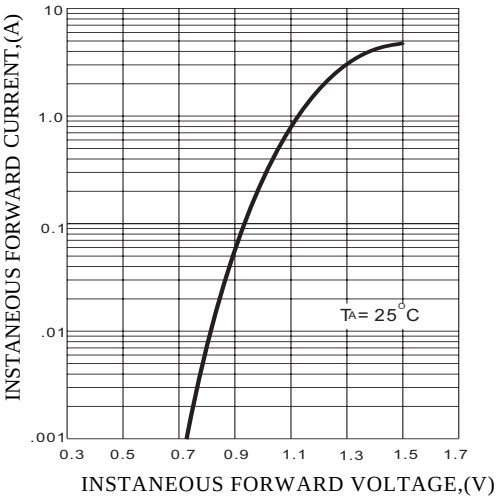

FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

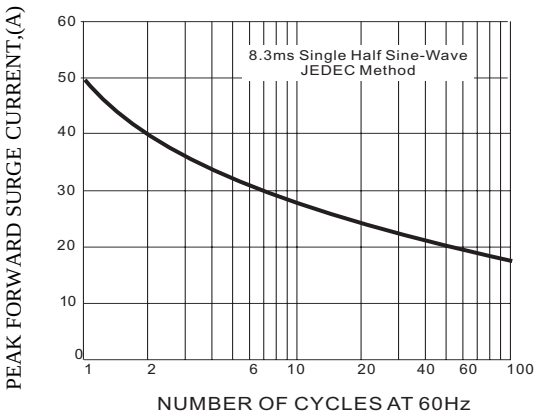

FIG.4TYPICAL JUNCTION CAPACITANCE

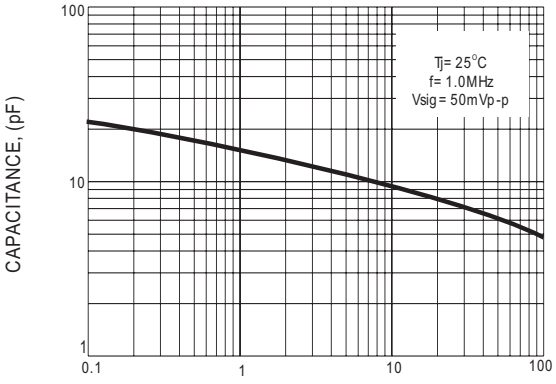

FIG.5TYPICAL REVERSE CHRACTERISTICS