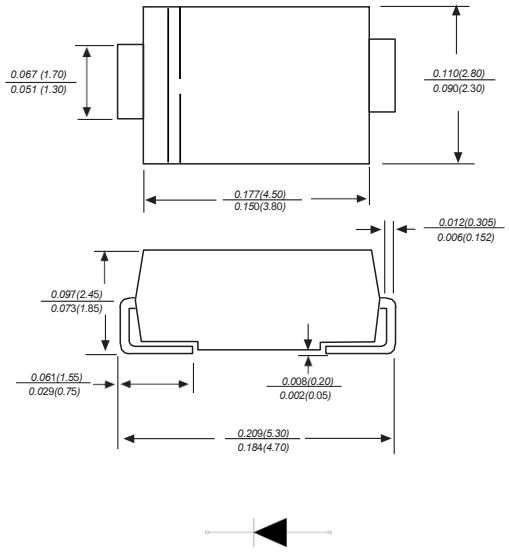
SURFACE MOUNT GENERAL PURPOSE SILICONRECTIFIER

Features

- For surface mounted applications
- Low profile packag
- Glass Passivated Chip Juntion
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

DO-214AC/SMA



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter / Marking Code	SYMBOLS	M20A	UNITS
Maximum repetitive peak reverse voltage	V_{RMM}	2000	V
Maximum RMS voltage	V_{RMS}	1400	V
Maximum DC blocking voltage	V_{DC}	2000	V
Maximum average forward rectified current at Tc=100℃	$I_{(AV)}$	1.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I_{FSM}	30	A
Maximum instantaneous forward voltage at 1A	V_F	1.1	V
Maximum DC reverse current T_A=25℃ at rated DCblocking voltage T_A=125℃	I_R	5 50	μA
Typical junction capacitance (NOTE 1)	C_J	20	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	95	℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150	℃

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

Typical Characterisitics

Fig.1 Forward Current Derating Curve

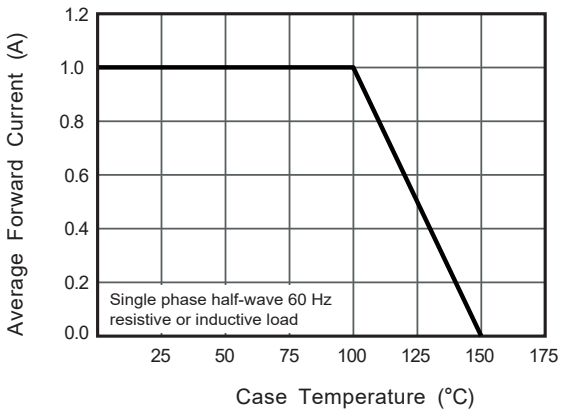


Fig.2 Typical Reverse Characteristics

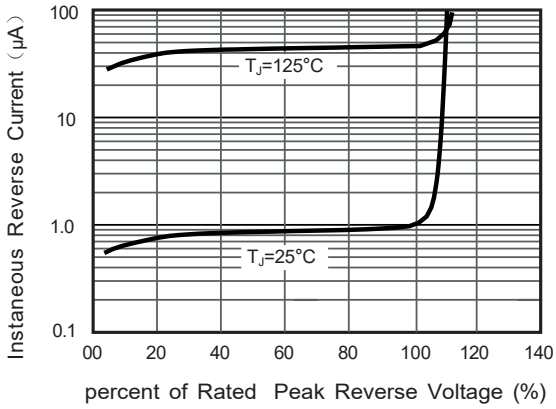


Fig.3 Typical Instaneous Forward Characteristics

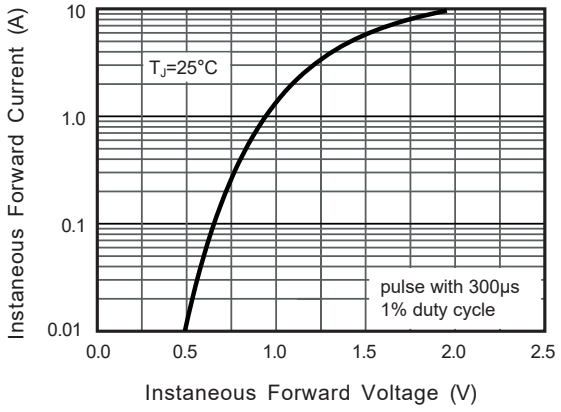


Fig.4 Typical Junction Capacitance

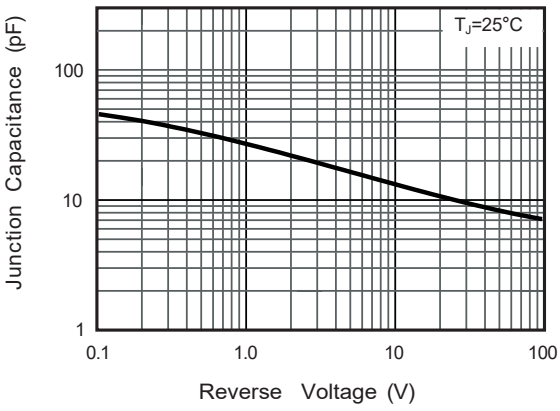
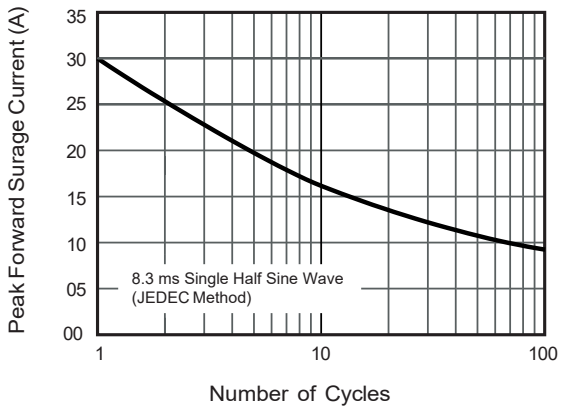


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.