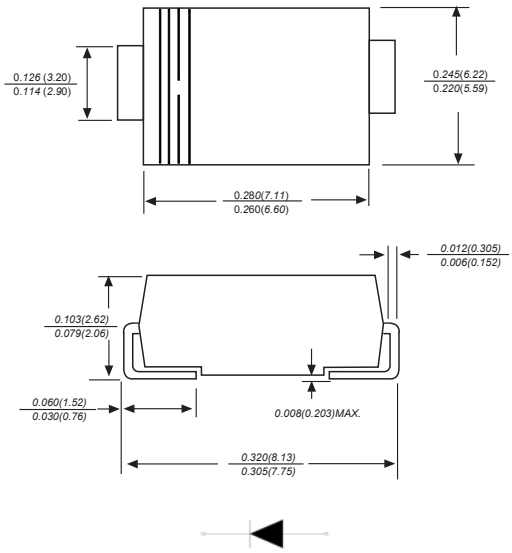
S10A~S10M

10.0Amp Standard Surface Mounted Rectifiers

Features

1. The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
2. For surface mounted applications
3. Low reverse leakage
4. Built-in strain relief,ideal for automated placement
5. High forward surge current capability
6. High temperature soldering guaranteed: 250 °C/10 seconds at terminals

DO-214AB/SMC



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DO-214AB/SMC molded plastic body
Terminals : Solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.0007 ounce, 0.25 grams

aximum Ratings and Electrical Characteristics

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

Parameter	SYMBOLS	S10A	S10B	S10D	S10G	S10J	S10K	S10M	UNITS
Marking Code		S10A	S10B	S10D	S10G	S10J	S10K	S10M	
Maximum repetitive peak reverse voltage	V_{RMM}	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
Maximum average forward rectified current at TL=75℃	$I_{(AV)}$	10.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I_{FSM}	200							A
Maximum instantaneous forward voltage at 10.0A	V_F	1.0							V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=125℃	I_R	5 100.0							μA
Typical junction capacitance (NOTE 1)	C_J	100.0							pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	10.0							℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150							℃

Note:1.Measured at 1 MHz and applied reverse voltage of 4 V D.C
2.P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.
3.The typical data above is for reference only.

RATING AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

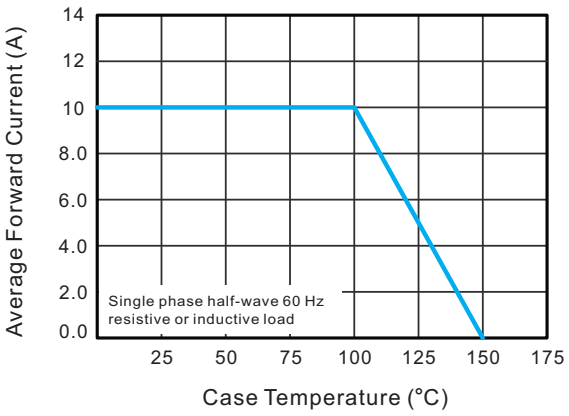


Fig.2 Typical Reverse Characteristics

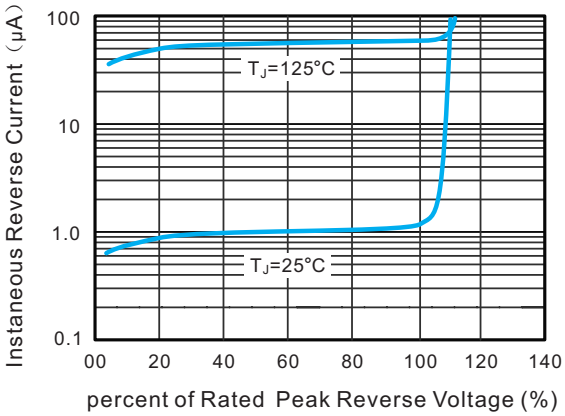


Fig.3 Typical Forward Characteristic

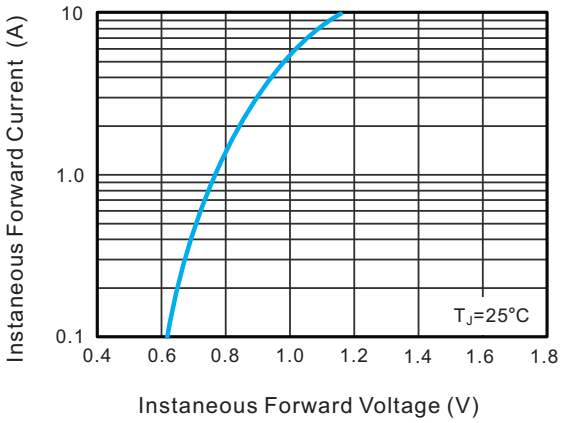


Fig.4 Typical Junction Capacitance

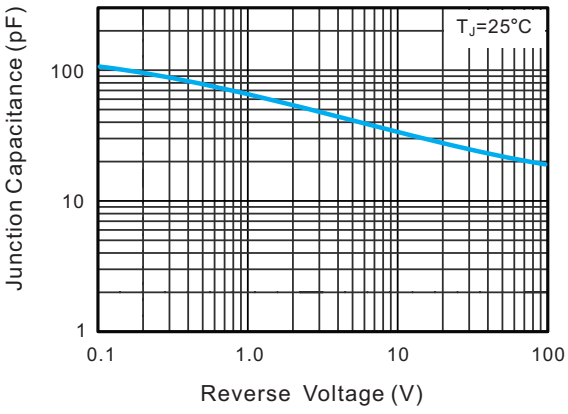


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current

