

S10A thur S10M

CREATEK Microelectronics

Surface Mount General Rectifier in DO-214AB/SMC

Features

- For surface mounted application
- Glass passivated junction chip
- Built-in strain relief, ideal for automated placement
- High forward surge current capability

Mechanical Data

- Case: JEDEC DO-214AB(SMC)molded plastic Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Maximum Ratings And Electrical Characteristics

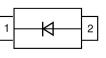
Ratings at 25° C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for cap	pacitive load o	current d	erate by	20%.					
Parameter	Symbols	S10A	S10B	S10D	S10G	S10J	S10K	S10M	Units
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	V
Maximum RMS voltage		35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=100C °	l(AV)	10.0		А					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	400.0		A					
Maximum instantaneous forward voltage at 1.0A	VF	1.0		V					
Maximum DC reverse currentTa=25 C °at rated DC blocking voltageTa=100 C °	IR	10.0 100.0		μA					
Typical junction capacitance (NOTE 1)	CJ	150.0		pF					
Typical thermal resistance (NOTE 2)	Reja	10.0		°C/W					
Operating junction and storage temperature range	ТJ, Tstg	-55 to +150		°C					

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.375x0.3752" (9.5x9.5mm) copper pad areas

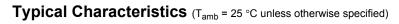


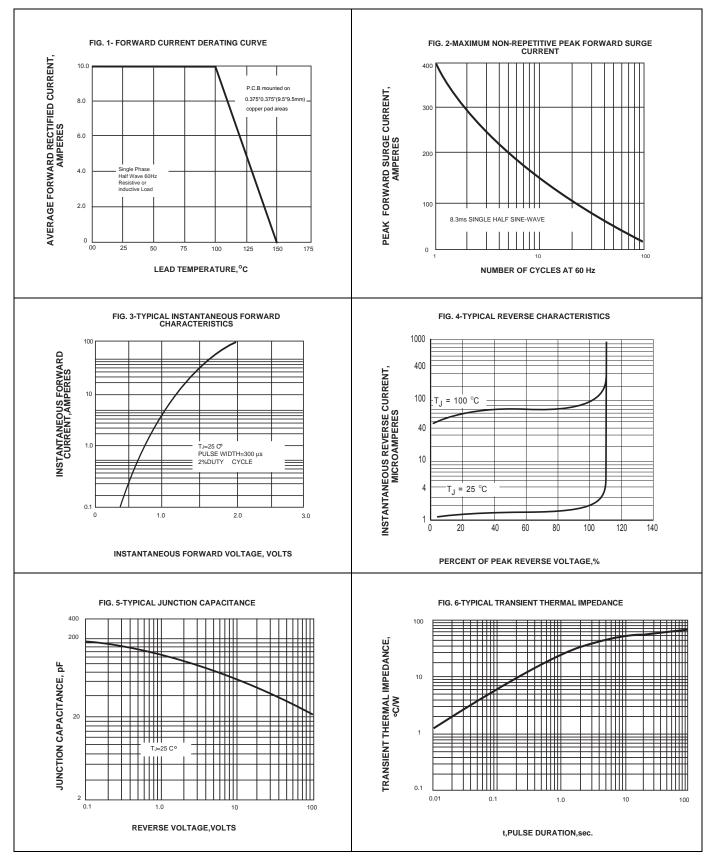


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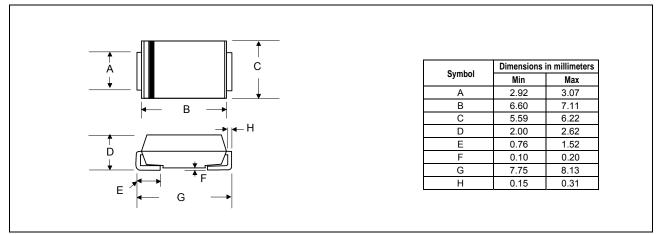




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Package Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
S10A thur S10M	DO-214AB/SMC	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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