

Surface Mount Rectifier

Voltage 800~1000 V Current 10A

Features

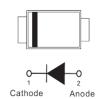
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated iunction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

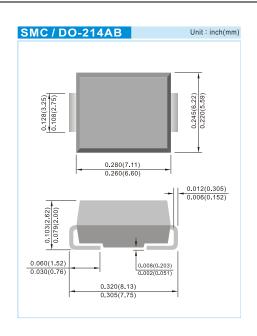
Mechanical Data

• Case : SMC Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.2325 grams





Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	S10KC	S10MC	UNIT
Maximum repetitive peak reverse voltage		Vrrm	800	1000	V
Maximum RMS voltage		VRMS	560	700	V
Maximum DC blocking voltage		VR	800	1000	V
Maximum average forward rectified current		I F(AV)	10		Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		Ігѕм	300		А
Maximum forward voltage at 10A		VF	1.1		V
Maximum DC reverse current at rated DC blocking voltage		lr	10		uA
Typical junction capacitance Measured at 1MHz and applied V _R =4V		Сл	65		pF
	(Note 2)	R _{θJA}	168		
Typical thermal resistance	(Note 1)	$R_{ heta JL}$	24		°C/W
	(Note 1)	Rejc	29		
Operating junction temperature range		TJ	-55 to +150		°C
Storage temperature range		Тѕтс	-55 to +150		°C

Note: 1. Mounted on a 100mm x 100mm x 1.6mm copper pad area.

2. Mounted on a FR4 PCB, single-sided copper, mini pad.



TYPICAL CHARACTERISTIC CURVES

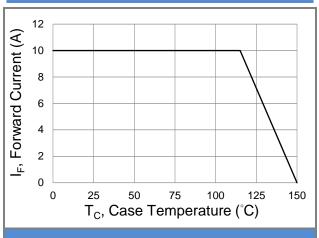


Fig.1 Forward Current Derating Curve

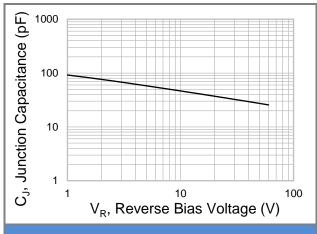


Fig.2 Typical Junction Capacitance

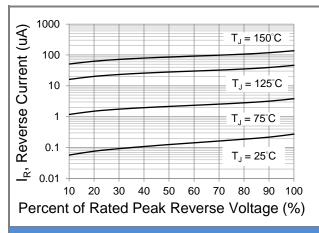


Fig.3 Typical Reverse Characteristics

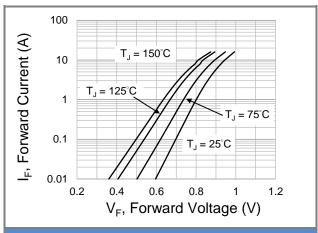


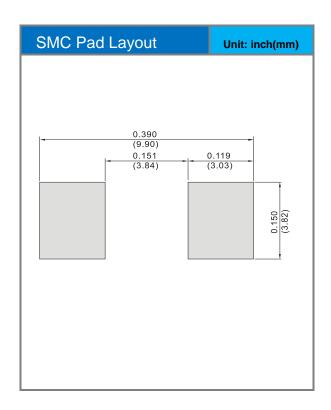
Fig.4 Typical Forward Characteristics



Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
S10KC	SMC	0.8K pcs / 7" reel	S10KC	
S10MC	SMC	0.8K pcs / 7" reel	S10MC	

Mounting Pad Layout



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