PAN CONDUCTOR SS12~SS16 SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER Voltage 20~60 V Current 1 A SMA Unit: inch(mm) Features 0.114(2.90) Plastic package has Underwriters Laboratory Flammability Classification 94V-O. 40) 0.062(1 For surface mounted applications in order to optimize board space • 0.181(4.60) Low power loss, High efficiency High surge capacity • 0.012(0.305) High current capacity, low V_F • Lead free in compliance with EU RoHS 2.0 • • Green molding compound as per IEC 61249 standard 0.060(1.52) Mechanical Data 0.208(5.28) • Case: SMA molded plastic • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Polarity: Color band denotes cathode end • Standard packaging : 12mm tape (EIA-481) • Approx. Weight: 0.0023 ounces, 0.0679 grams Cathode Anode

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

PARAMETER		SYMBOL	SS12	SS13	SS14	SS15	SS16	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	50	60	V
Maximum rms voltage		V _{RMS}	14	21	28	35	42	V
Maximum dc blocking voltage		V _R	20	30	40	50	60	V
Maximum average forward current		I _{F(AV)}	1					А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	30					А
Maximum forward voltage at 1A		V _F	0.5 0.7			.7	V	
Maximum dc reverse current at rated dc blocking voltage (Note 1)	TJ=25 ℃		0.2		0.1		mA	
	TJ=100 ℃	I _R	6 5			5		
Typical Junction Capacitance ($V_R = 4V f = 1MHZ$)		CJ		70		5	0	pF
	(Note 2)	R _{eJL}	28					
Typical thermal resistance	(Note 2)	$R_{\theta JA}$	88					°C/W
	(Note 3)	$R_{ extsf{ heta}JA}$	150					
perating junction temperature range		TJ	-55 to +125 -55 to +150		0	°C		
Storage temperature range		T _{STG}	-55 to +150					°C

Note : 1. Short duration pulse test used to minimize self-heating effect.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

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











Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SS12	SMA	1,800pcs / 7" reel	SS12
SS12	SMA	7,500pcs / 13" reel	SS12

Mounting Pad Layout





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