

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 20 - 100V CURRENT: 1.0 A

Features

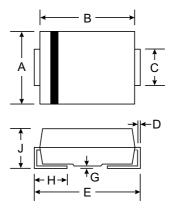
- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)







SMA(DO-214AC)							
Dim	Min	Max					
Α	2.29	2.92					
В	4.00	4.60					
С	1.27	1.63					
D	0.15	0.31					
E	4.80	5.59					
G	0.10	0.20					
Н	0.76	1.52					
J	2.01	2.62					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

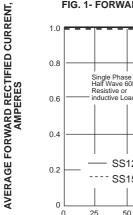
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

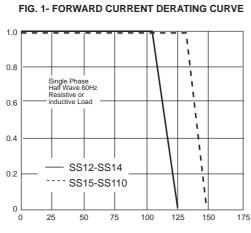
Characteristic	Symbol	SS12	SS13	SS14	SS15	SS16	SS18	SS110	Unit
Maximum repetitive peak reverse voltage		20	30	40	50	60	80	100	V
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	V
Maximum average forward rectified current	l(AV)	1.0							А
at TL(see fig.1)	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	Ігѕм				40.0			Α	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	0.45	0.55		5 0.70		0.85		V
Maximum DC reverse current Ta=25°C		0.5							mA
at rated DC blocking voltage Ta=100℃	l _R	6.0 5.0						IIIA	
Typical junction capacitance (NOTE 1)	Cı	110		90				pF	
Typical thermal resistance (NOTE 2)		88.0					°C/W		
Operating junction temperature range	TJ,	-65 to +125		-6	-65 to +150			°C	
Storage temperature range	Тѕтс	-65 to +150						°C	

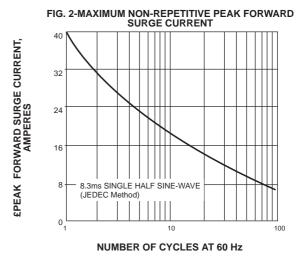
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES SS12 THRU SS110

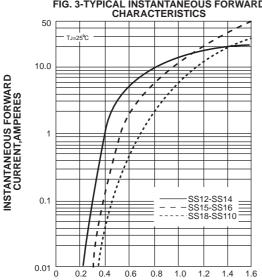




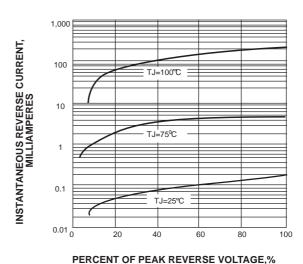




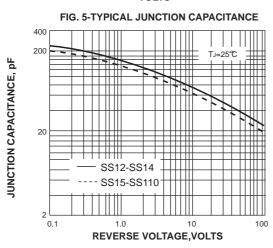
AMBIENT TEMPERATURE, °C

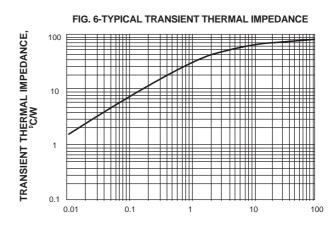






INSTANTANEOUS FORWARD VOLEAGE, VOLTS





t,PULSE DURATION,sec.