# SS14 THRU SS120

# Schottky Diodes Reverse Voltage-40to200v Forward current-1A

#### **Features**

Schottky chip
Ldeal for surface mounted applications
Low forward voltage drop,Low power loss, high efficiency
Plastic Case Material has UL Flammability

#### Mechanical Data

Package: SMA

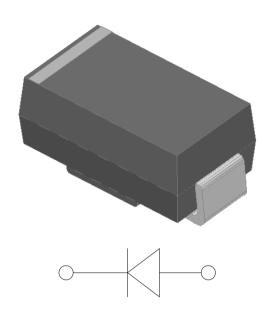
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

**ROHS-compliant** 



#### Maximum Ratings (Ta=25℃ Unless otherwise specified)

Type Number	SYMBOL	SS14	SS16	SS18	SS110	SS115	SS120	Umit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	60	80	100	150	200	٧
Maximum Average Forward Rectified Current		1.0						Α
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated		20.0					Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		40.0					Α	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	1.7			A <sup>2</sup> S			
Maximum Forward Voltage at 1.0A DC	V <sub>FM</sub>	0.55	0.75	0.	85	0.	92	V
Maximum Reverse Current TA = 25 ℃	ID	0.1			0.05		mA	
at Rated DC Blocking Voltage TA = 100 ℃	- IR	20 10				mA		
Typical Thermal Resistance	$R_{QJA}$	65.0					°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	—55to+150					$^{\circ}$	
Storage Temperature Range	T <sub>STG</sub>	—55to+150					$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

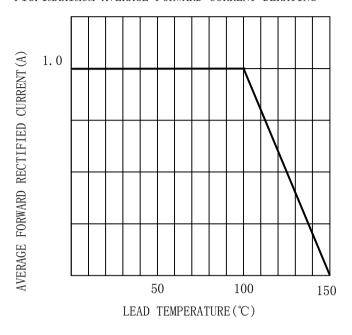


FIG. 2TYPICAL FORWARD CHARACTERISTICS

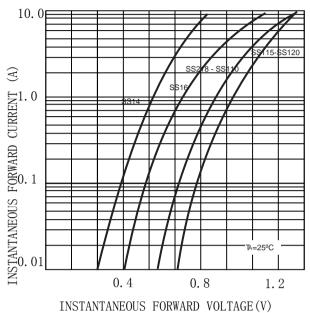


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

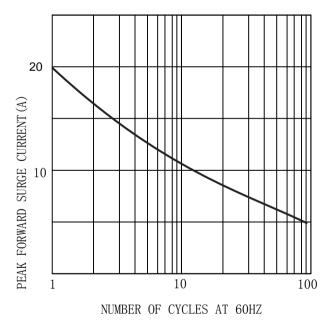
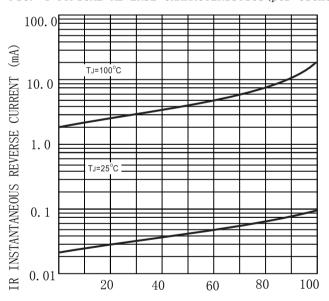


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



## **MARKING INFORMATION**



= Logo

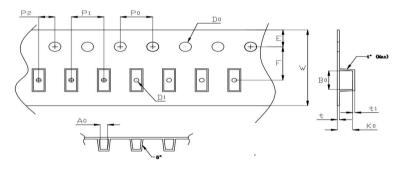
\*\*\*\* = Date Code Marking

SS\*\*\* = Marking Code

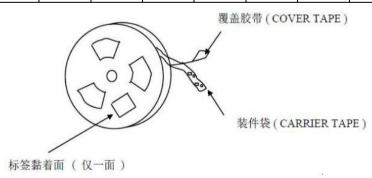
Print according to customer request

# **PACKING REQUIRMENTS**

Carrier tape packing



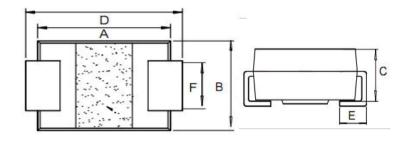
Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
SMA	Anti-static	2.65± 0.10	5.20± 0.10	2.30± 0.10	4.00± 0.10	12.0± 0.10	0.20± 0.05	



	DEVICE TYPE	Tape width		11"Reel		11"Reel		
			Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
	SMA	12mm	5000	20	100000	5000	18	90000

# Outline Dimensions

SMA



SMA							
DTM	INC	HES	MM				
DIM	MIN	MAX	MIN	MAX			
A	0. 16	0. 18	4.05	4.65			
В	0.09	0. 11	2.4	2.8			
С	0.07	0.09	1.8	2. 3			
D	0.18	0.21	4.67	5. 27			
Е	0.04	0.06	1	1.4			
F	0.05	0.06	1.2	1.6			



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