



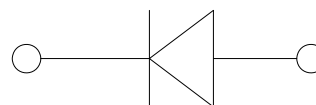
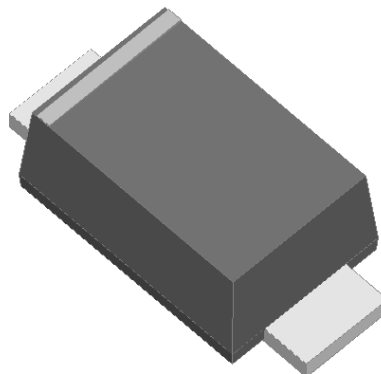
Schottky Diodes
Reverse Voltage-40to200v
Forward current-1A

Features

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

Mechanical Data

Package: SMAFL
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°C Unless otherwise specified)

Type Number	SYMBOL	SS14	SS16	SS18	SS110	SS115	SS120	Umit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current at TL = 100 °C	IO(AV)	1.0						A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	20.0						A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		40.0						A
Current squared time @1ms≤t8.3≤ms Tj=25°C, Rating of per diode	I²t	1.7						A²S
Maximum Forward Voltage at 1.0A DC	V _{FM}	0.55	0.75	0.85		0.92		V
Maximum Reverse Current TA = 25°C	IR	0.1		0.05			mA	
at Rated DC Blocking Voltage TA = 100 °C		10		5			mA	
Typical Thermal Resistance	R _{QJA}	65.0						°C/W
Operating Junction Temperature Range	T _J	—55to+150						°C
Storage Temperature Range	T _{STG}	—55to+150						°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

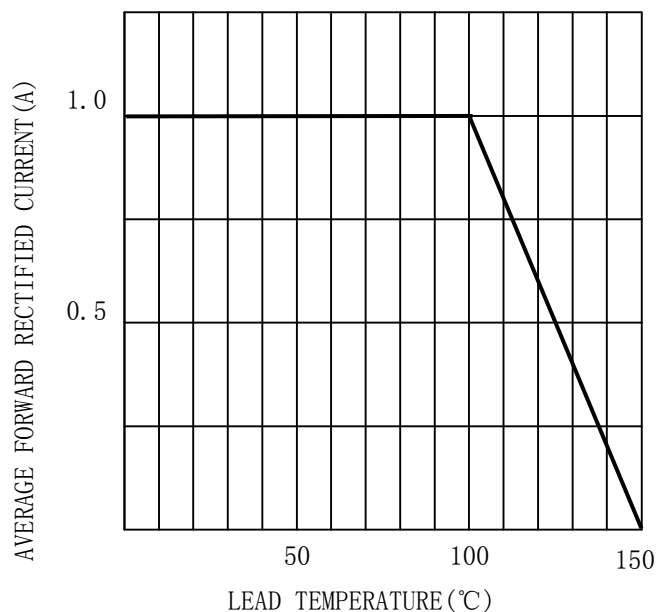


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

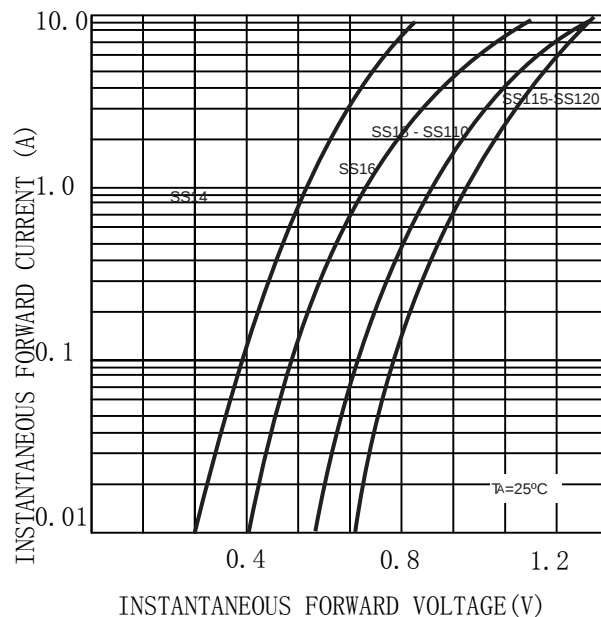


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

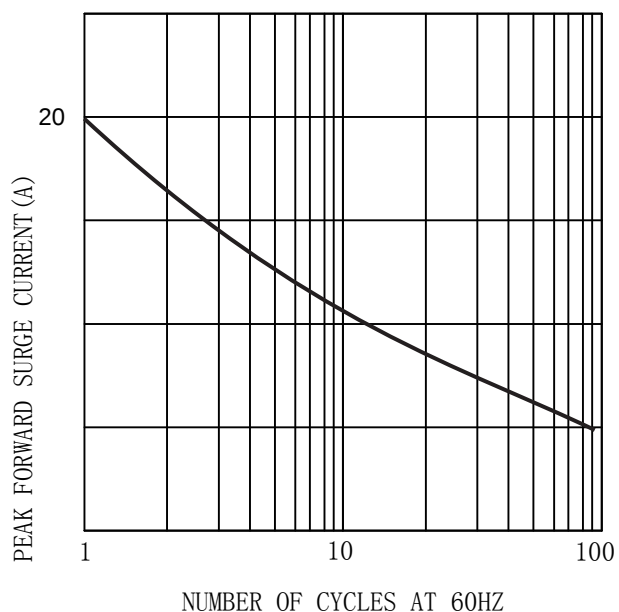
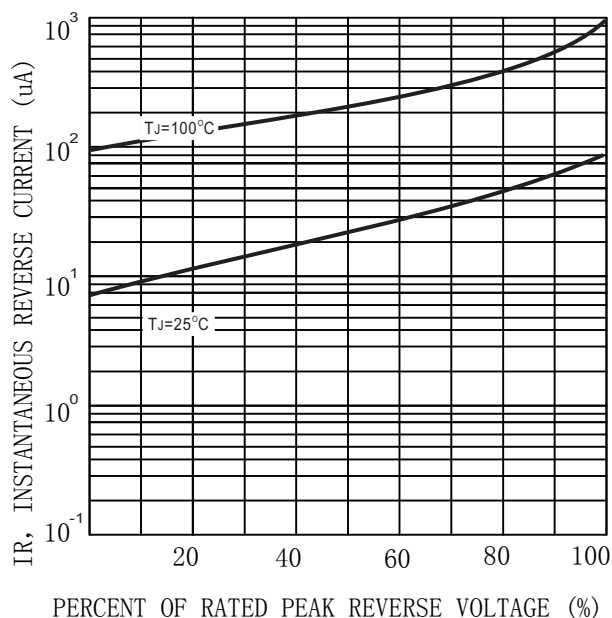


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



 = Logo

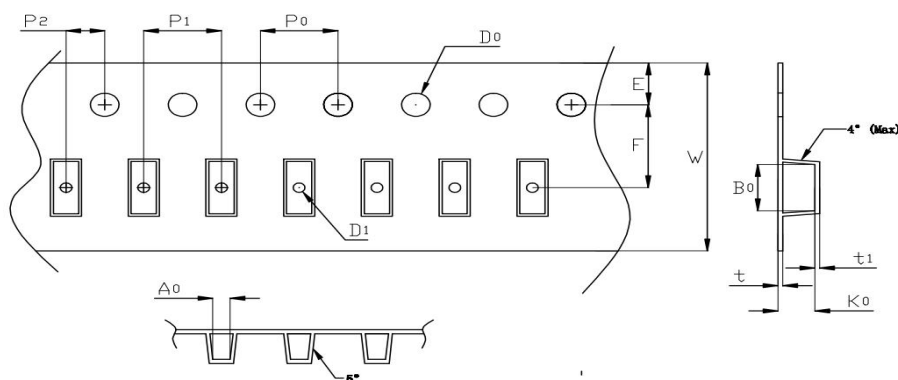
**** = Date Code Marking

SS**= Marking Code

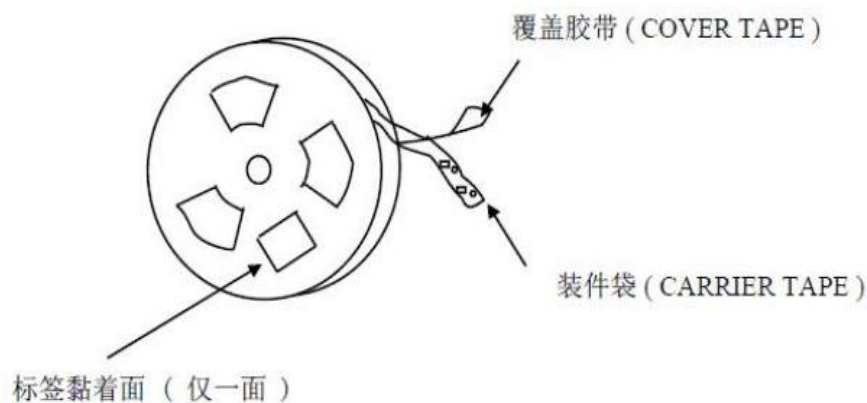
Print according to customer request

PACKING REQUIRMENTS

• Carrier tape packing



Specificati ons	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
SMAFL	Anti-static	2.83± 0.10	4.9± 0.10	1.45± 0.05	4.00± 0.10	12.0± 0.10	0.23± 0.05	

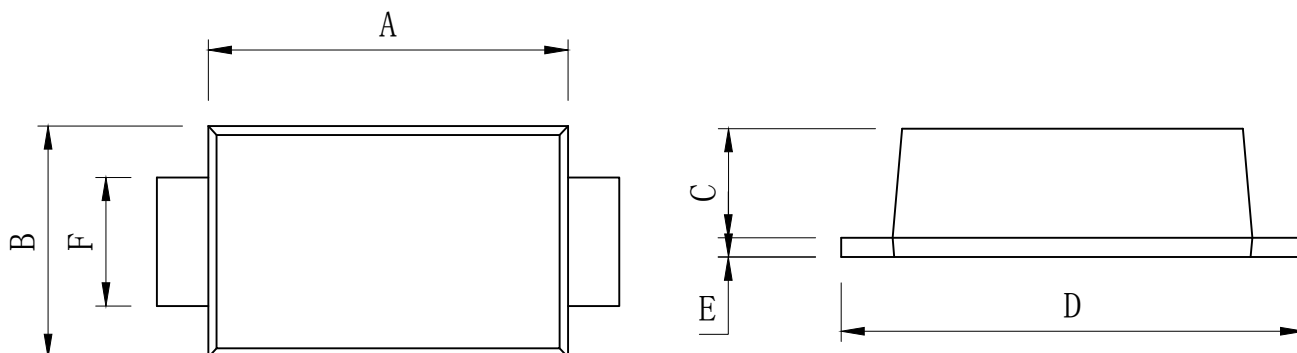


DEVICE TYPE	Tape width	13"Reel			7"Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMAFL	12mm	10000	20	200000	3000	64	192000



Outline Dimensions

SMAFL



SMAFL				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.13	0.15	3.2	3.8
B	0.09	0.11	2.3	2.7
C	0.03	0.05	0.8	1.2
D	0.16	0.20	4	5
E	/	0.01	/	0.3
F	0.04	0.08	1	2



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