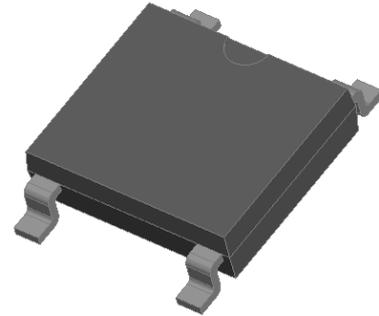




Bridge Rectifiers
Reverse Voltage-1000v
Forward current-2A

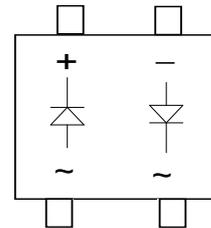
Features

- Glass passivated chip
- High surge current capability
- Ideal for surface mounted applications
- Low power loss, high efficiency
- Plastic Case Material has UL Flammability



Mechanical Data

- Package: ABS
- 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)

Type Number	SYMBOL	ST210	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current at TL = 100 °C	$I_{O(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	60.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		120.0	A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	14.9	A ² S
Maximum Forward Voltage at 2.0A DC	V_{FM}	1.1	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 100°C		100	
Typical Junction Capacitance	CJ	40	pF
Typical Thermal Resistance Between junction and ambient	R_{QJa}	62.5	°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

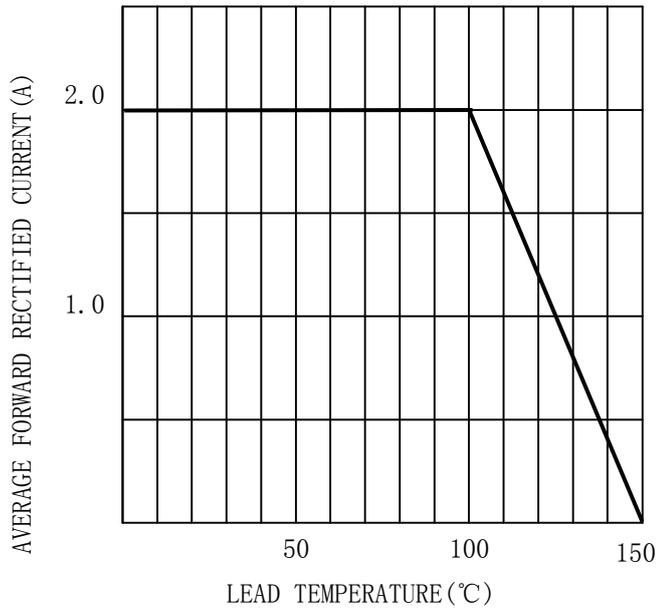


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

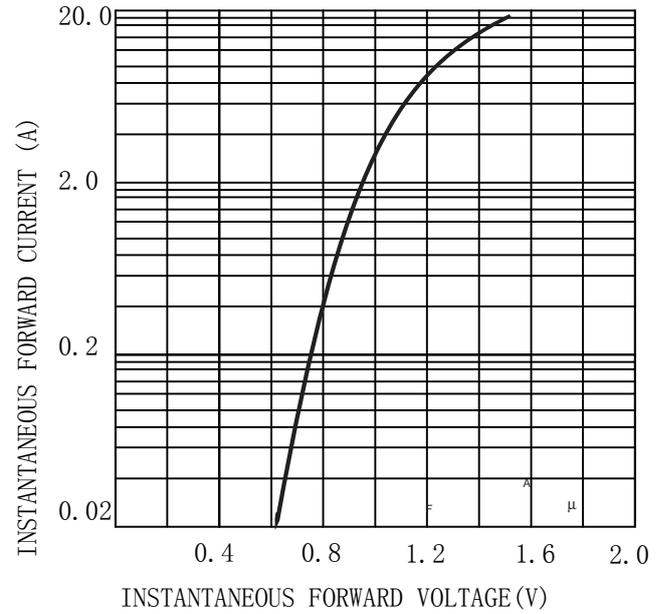


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

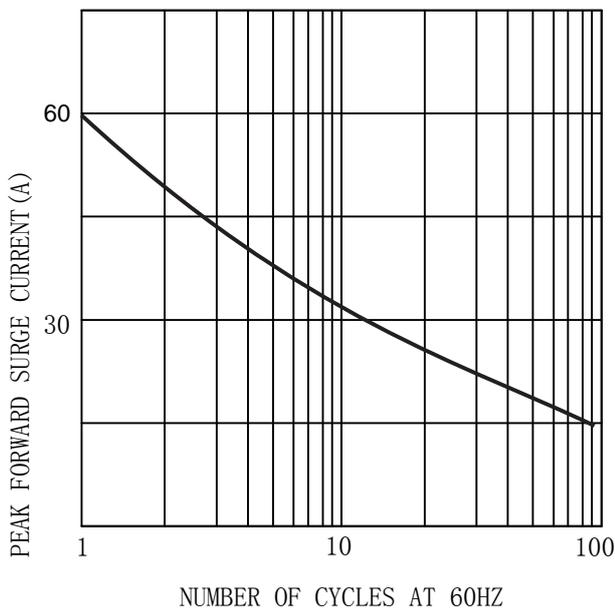
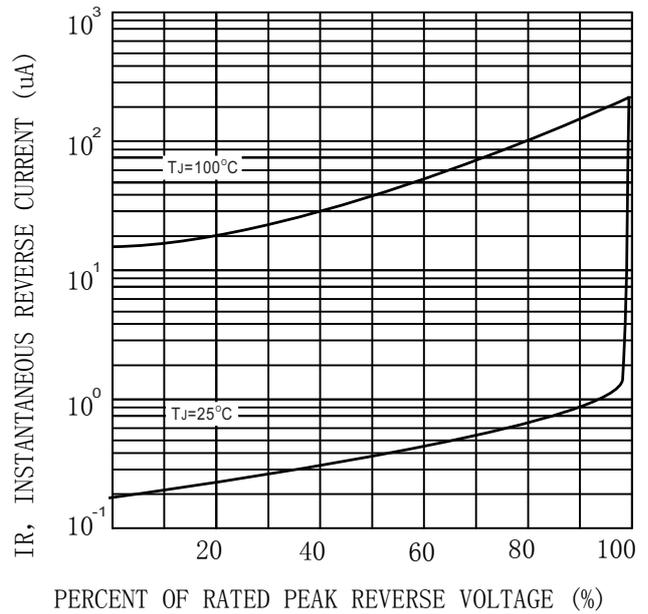


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



= Logo



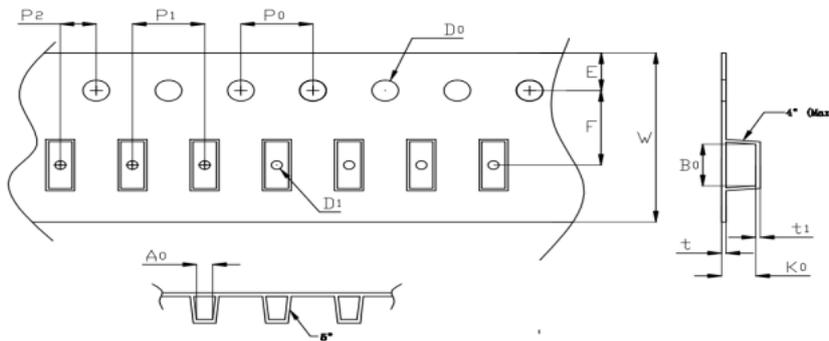
= Date Code Marking

ST210 = Marking Code

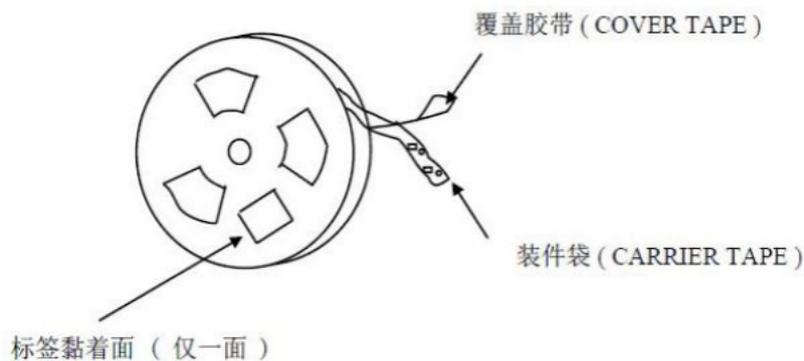
Print according to customer request

PACKING REQUIRMENTS

- Carrier tape packing



Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
ABS	Anti-static	5.31± 0.10	6.8± 0.10	1.59± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	

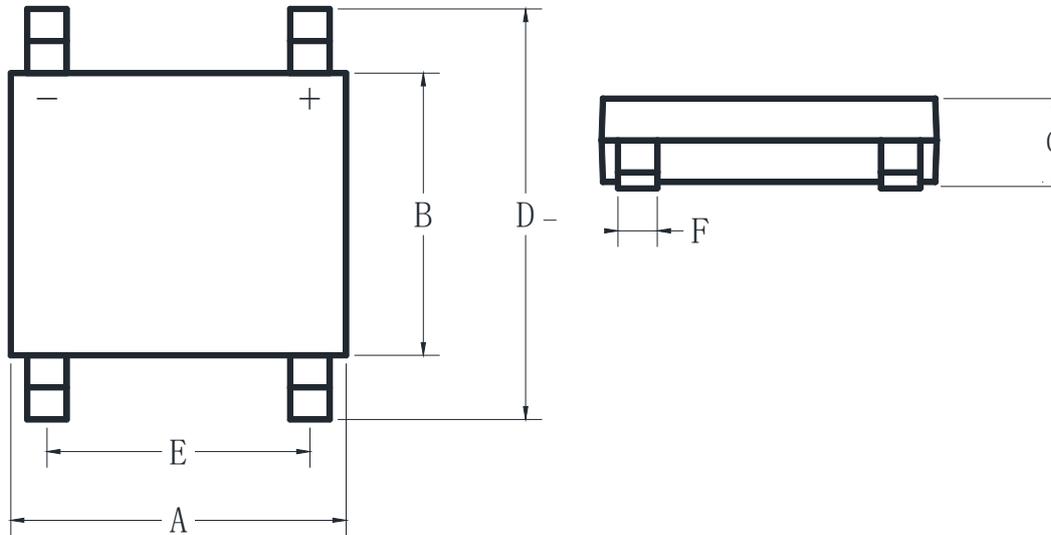


DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
ABS	12mm	5000	20	100000



Outline Dimensions

ABS



ABS				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.19	0.21	4.8	5.4
B	0.16	0.19	4.1	4.7
C	0.04	0.06	1.1	1.6
D	0.23	0.26	5.9	6.7
E	0.15	0.17	3.7	4.3
F	0.02	0.04	0.4	1



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