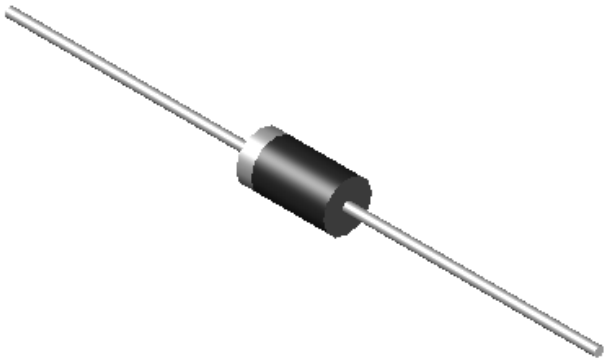
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

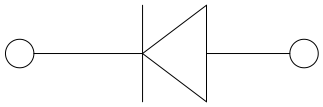
SR540L THRU SR5200L

Surface mount LVF Schottky diode
Reverse Voltage40V-200v
Forward current-5A



Features

LVF Schottky chip
Low VF， Low power losses, high efficiency
Ldeal for surface mounted applications
Plastic Case Material has UL Flammability



Mechanical Data

Package: DO-27
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	SR540L	SR560L	SR580L	SR5100L	SR5150L	SR5200L	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	$IO_{(AV)}$	5.0						A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	100.0						A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		200.0						A
Current squared time @1ms≤t8.3≤ms Tj=25℃， Rating of per diode	I^2t	41.5						A^2S
Maximum Forward Voltage at 5.0A DC	V_{FM}	0.45	0.55	0.65		0.85		V
Maximum Reverse Current TA = 25℃	IR	0.2		0.1				mA
at Rated DC Blocking Voltage TA = 80℃		50.0		20.0				
Typical Thermal Resistance Between junction and	R_{QJa}	40.0						℃/W
Operating Junction Temperature Range	T_J	—55to+150						℃
Storage Temperature Range	T_{STG}	—55to+150						℃

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

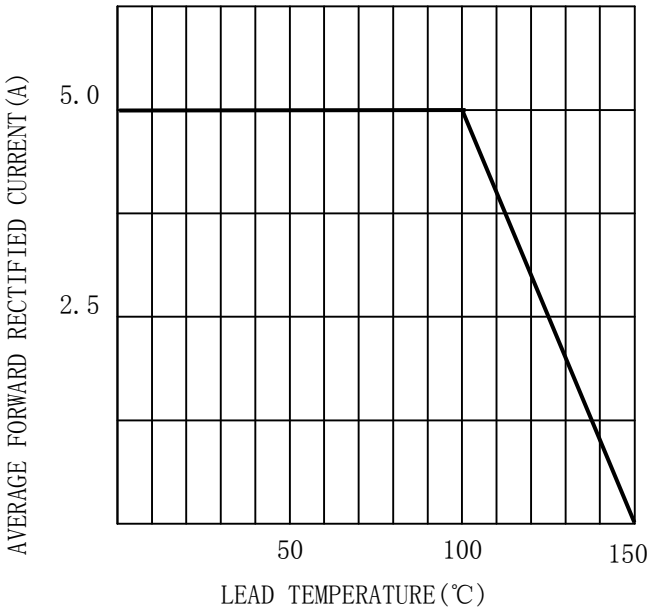


FIG.2TYPICAL FORWARD CHARACTERISTICS

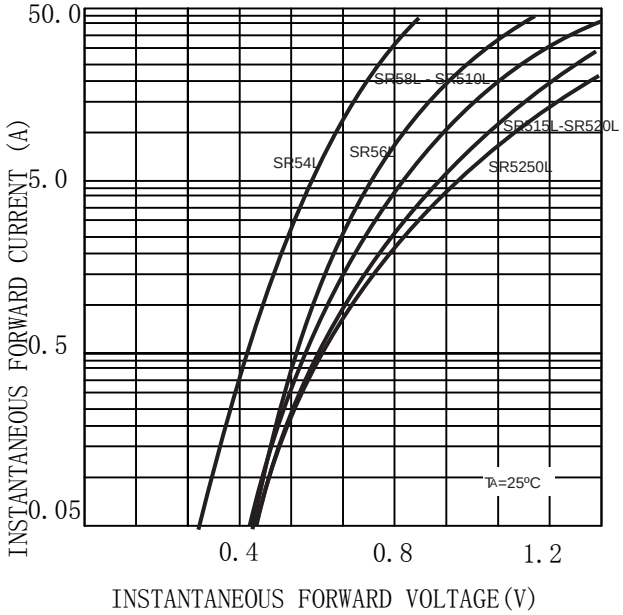


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

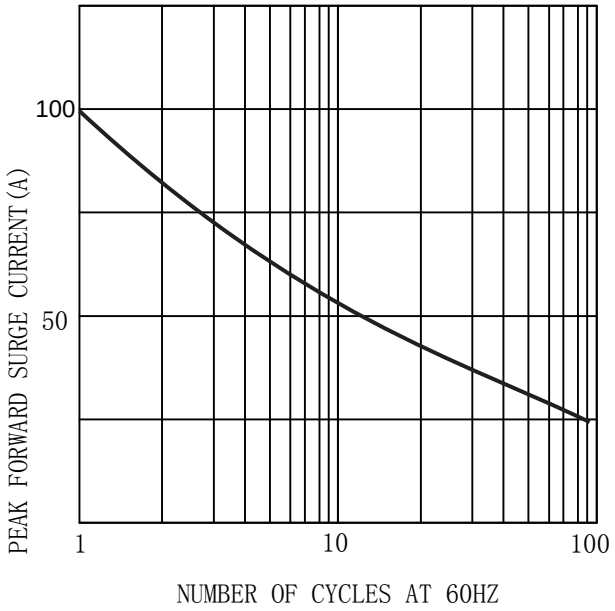
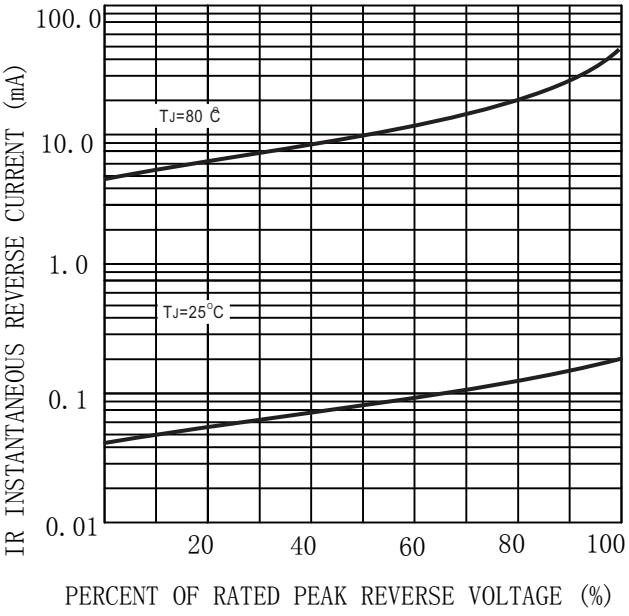


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION

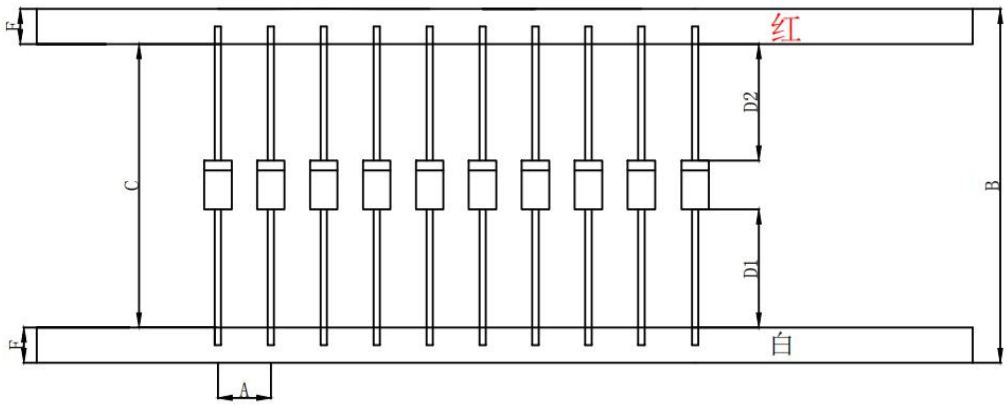
= Logo

**** = Date Code Marking

SR*** = Marking Code

Print according to customer request

PACKING REQUIRMENTS

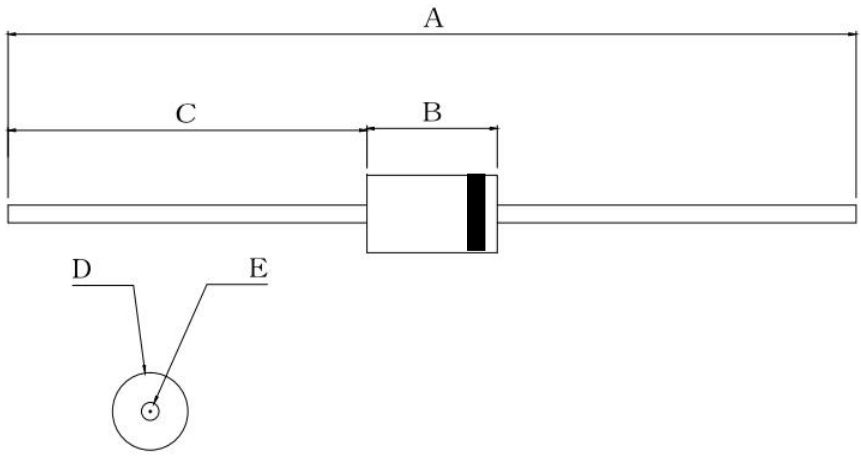


Specifications	A	B	C	| D1-D2 |	E
DO-27/MM	10± 0.5	65±2.5	52.4±0.5	1.0MAX	6.0±0.4

DEVICE TYPE	BOX/CARTOON	Q'TY/CASE (pcs)
DO-27	1250	12500

Outline Dimensions

DO-27



DO-27				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	2.23	2.35	56.70	59.70
B	0.34	0.38	8.70	9.70
C	0.94	0.98	24.00	25.00
D	0.19	0.22	4.90	5.50
E	0.04	0.05	1.10	1.30

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