



**Schottky Diodes**  
**Reverse Voltage45v**  
**Forward current-10A**

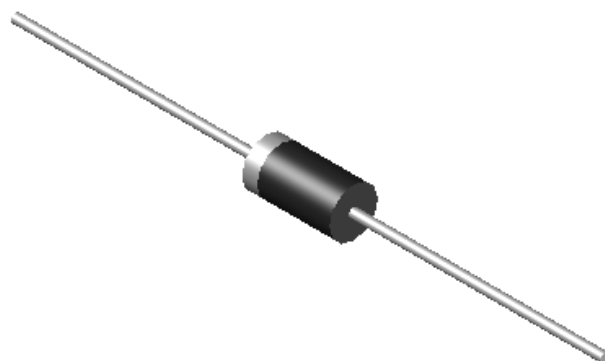
## Features

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: DO-27

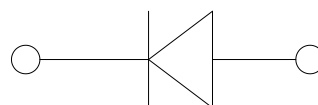
Terminals:Tin Plated leads, solderable per

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	SR1045L	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	45	V
Maximum RMS Voltage	$V_{RMS}$	31.5	V
Maximum DC Blocking Voltage	$V_{DC}$	45	V
Maximum Average Forward Rectified Current	$I_{O(AV)}$	10.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	250.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		500.0	A
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	$I^2t$	259.4	A <sup>2</sup> S
Maximum Forward Voltage at 10.0A DC	$V_{FM}$	0.45	V
Maximum Reverse Current TA = 25℃	IR	0.20	mA
at Rated DC Blocking Voltage TA = 80℃		50.0	
Typical Thermal Resistance Between junction and	$R_{QJa}$	25.0	℃/W
Operating Junction Temperature Range	$T_J$	—55to+150	℃
Storage Temperature Range	$T_{STG}$	—55to+150	℃



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

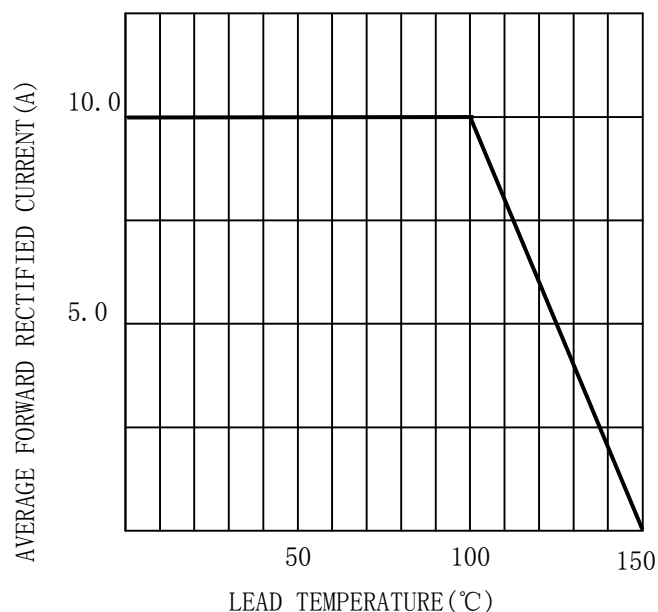


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

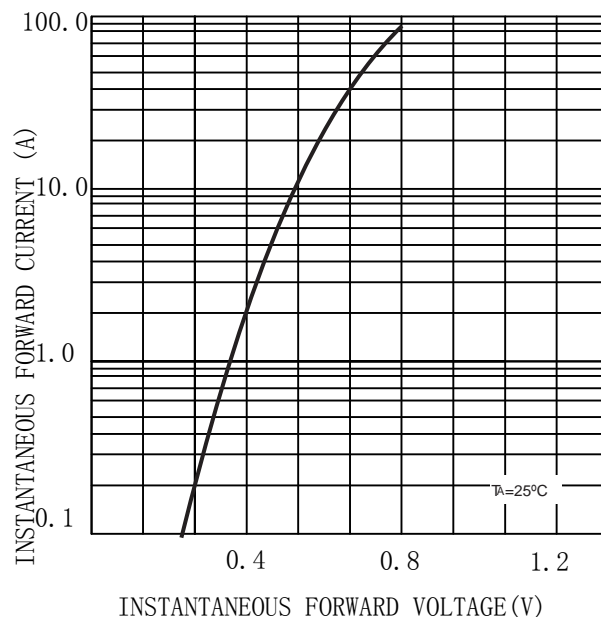


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

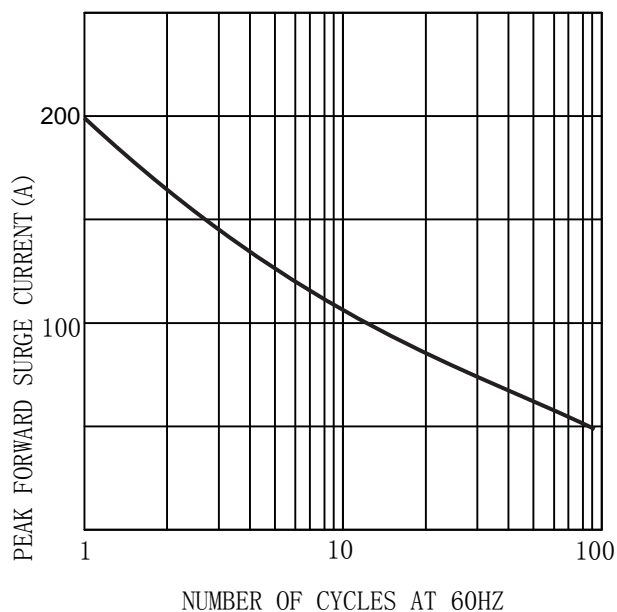
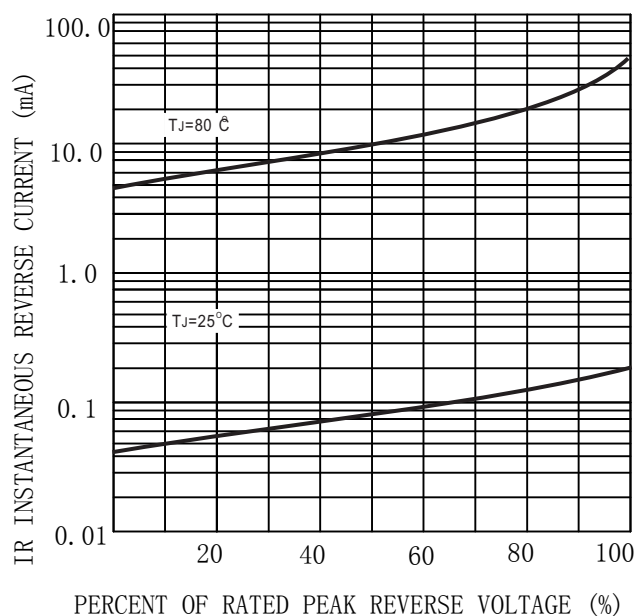


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



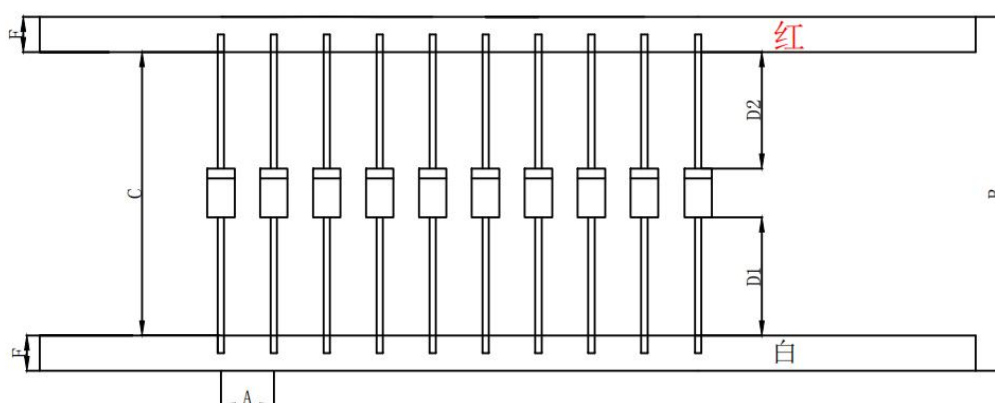


## MARKING INFORMATION



Print according to customer request

## PACKING REQUIRMENTS



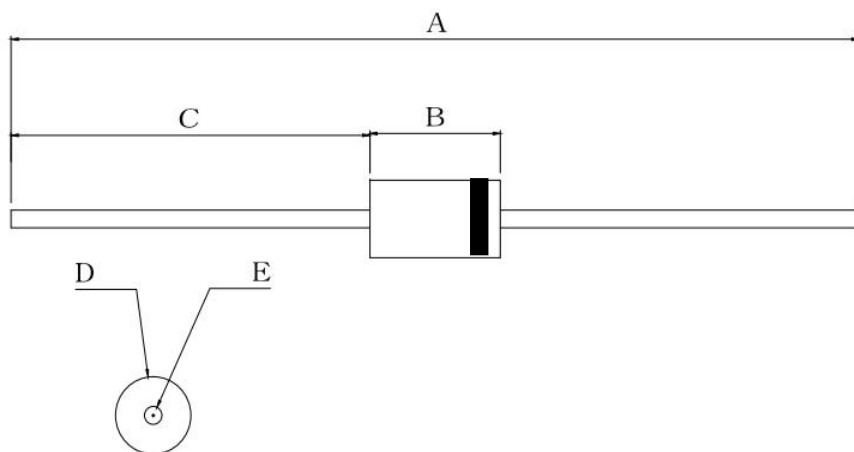
Specifcations	A	B	C	D1-D2	E
DO-27/MM	10± 0.5	65±2.5	52.4±0.5	1.0MAX	6.0±0.4

DEVICE TYPE	BOX/CAR TOON	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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