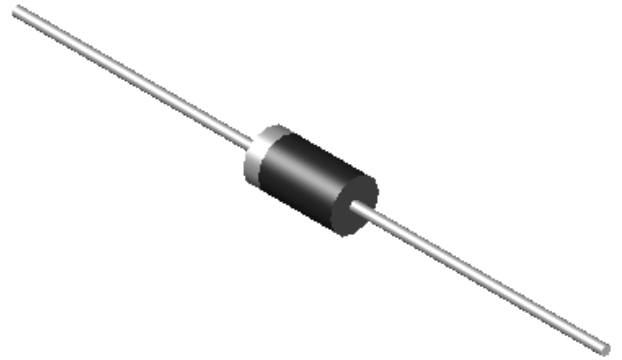




Express recovery diode
Reverse Voltage50-600v
Forward current-5A

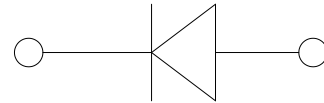
Features

- 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: 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°C Unless otherwise specified)

Type Number	SYMBOL	SF58	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current at TL = 100 °C	$I_{O(AV)}$	5.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	120.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		240.0	A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	59.8	A ² S
Maximum Forward Voltage at 5.0A DC	V_{FM}	1.70	V
Maximum Reverse Current TA = 25°C	IR	5.0	uA
at Rated DC Blocking Voltage TA = 100°C		100.0	
Typical Thermal Resistance Between junction and ambient	R_{QJa}	40.0	°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

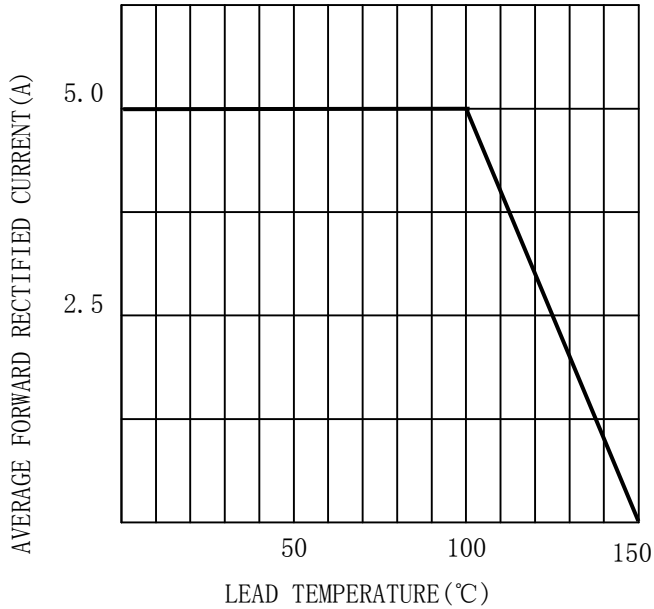


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

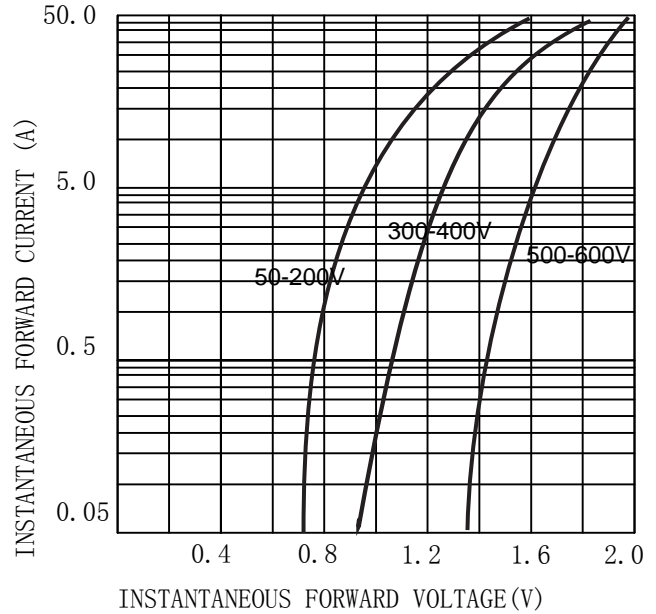


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

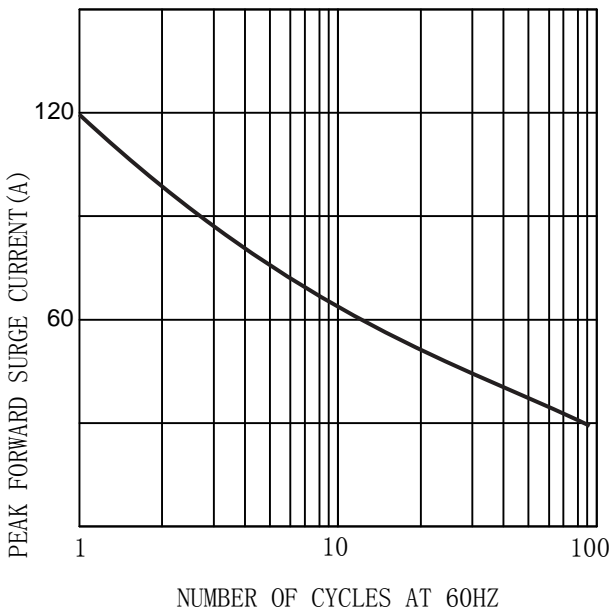
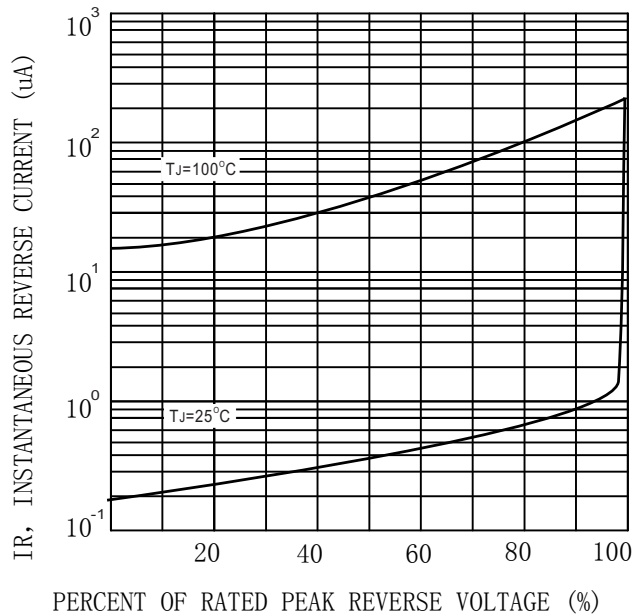


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



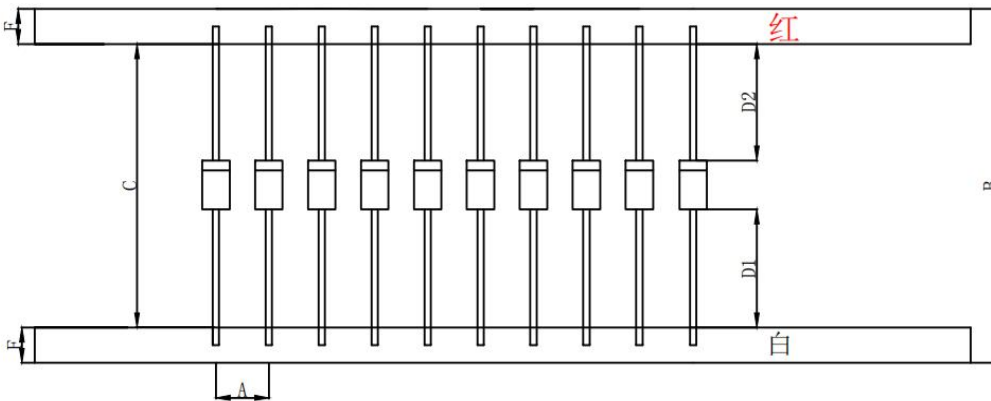


MARKING INFORMATION



Print according to customer request

PACKING REQUIRMENTS



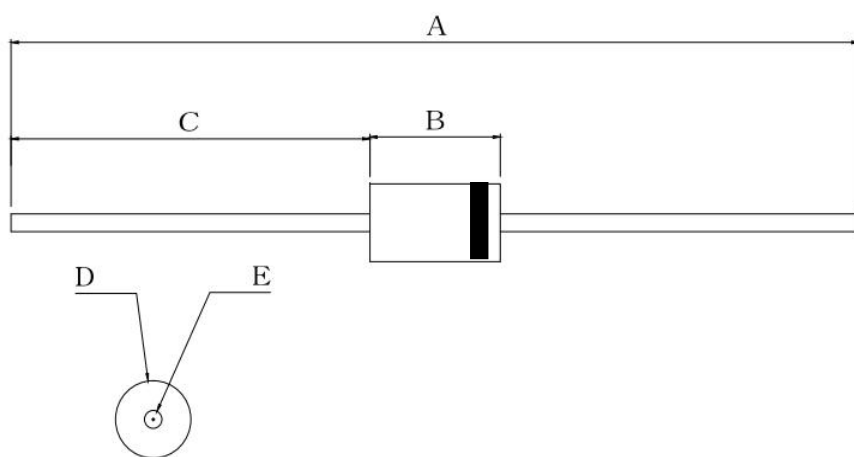
Specifications	A	B	C	D1-D2	E
DO-27/MM	10± 0.5	65±2.5	52.4±0.5	1.0MAX	6.0±0.4

DEVICE TYPE	BOX/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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