



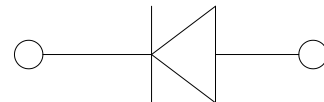
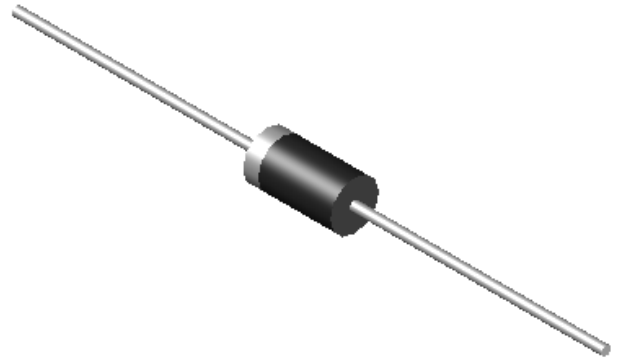
Express recovery diode
Reverse Voltage 600v
Forward current-10A

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	SF108	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 $T_L = 100^\circ\text{C}$	$I_{O(AV)}$	10.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load (JEDEC Method) on rated	IFSM	150.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_J = 25^\circ\text{C}$		300.0	A
Current squared time @1ms ≤ t ≤ 8.3ms $T_J = 25^\circ\text{C}$, Rating of per diode	I^2t	93.4	A^2S
Maximum Forward Voltage at 10.0A DC	V_{FM}	1.85	V
Maximum Reverse Current $T_A = 25^\circ\text{C}$	IR	5.0	uA
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		100.0	
Typical Thermal Resistance Between junction and ambient	R_{QJA}	40.0	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	-55to+150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55to+150	$^\circ\text{C}$



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

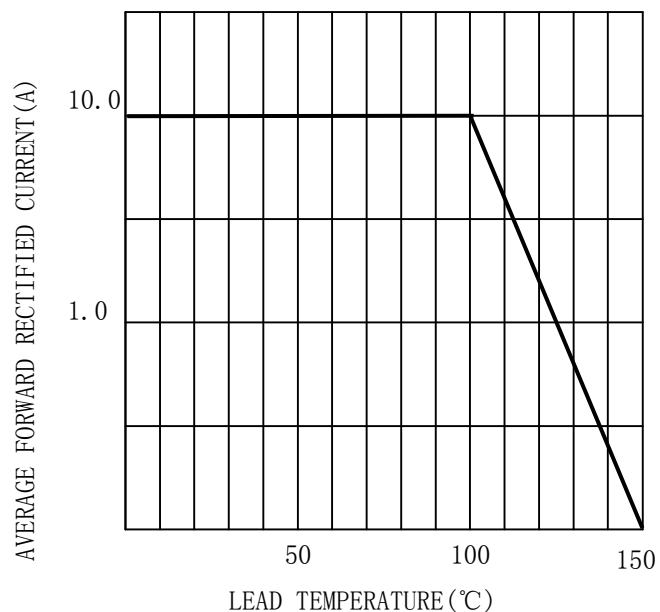


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

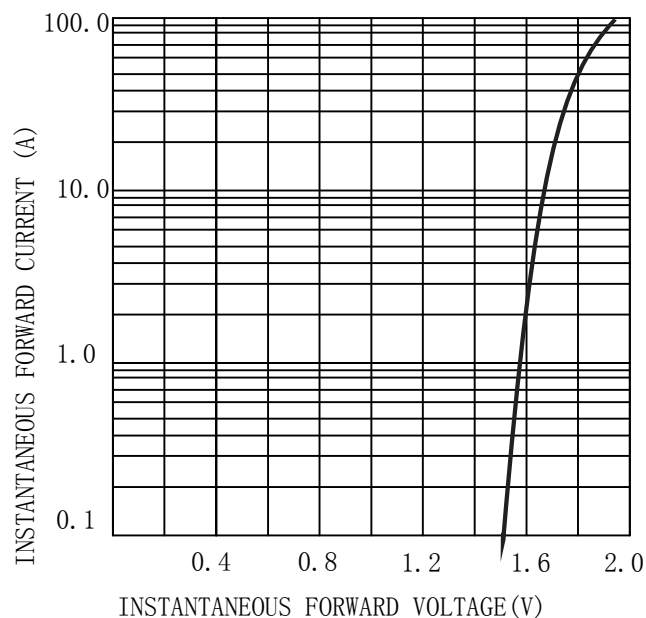


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

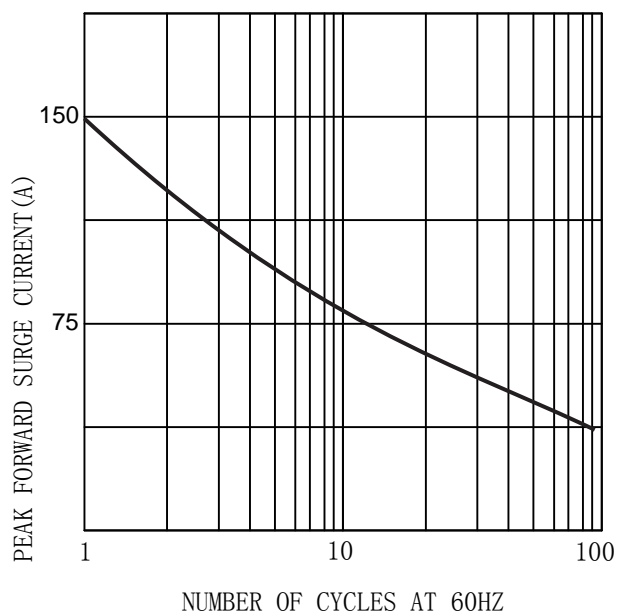
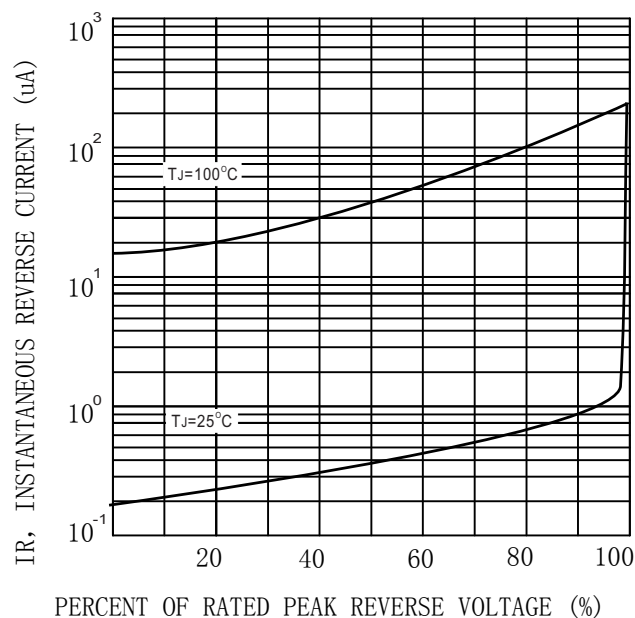
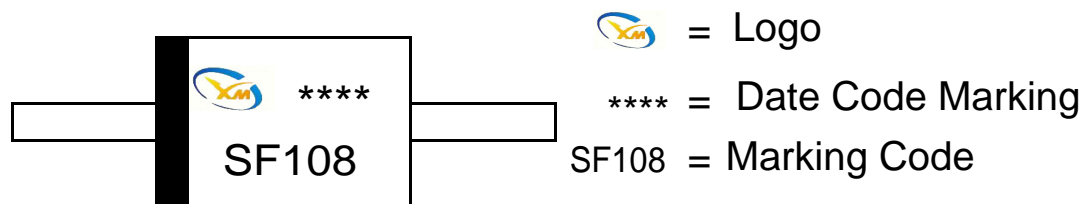


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



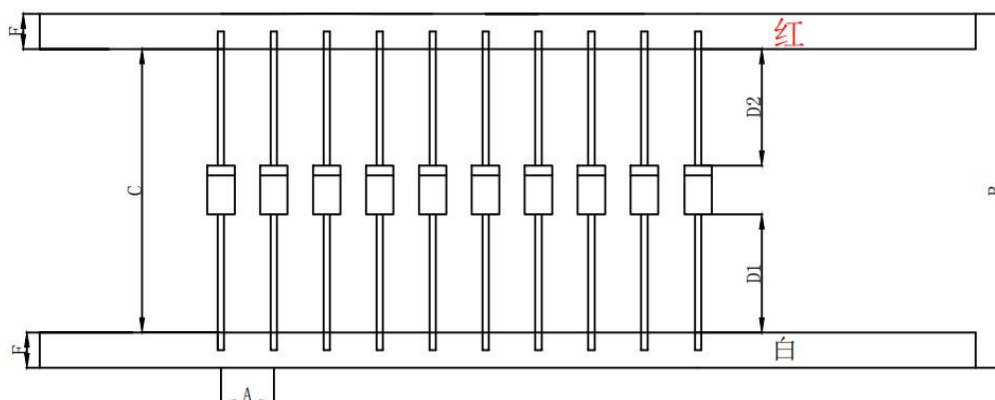


MARKING INFORMATION



Print according to customer request

PACKING REQUIRMENTS



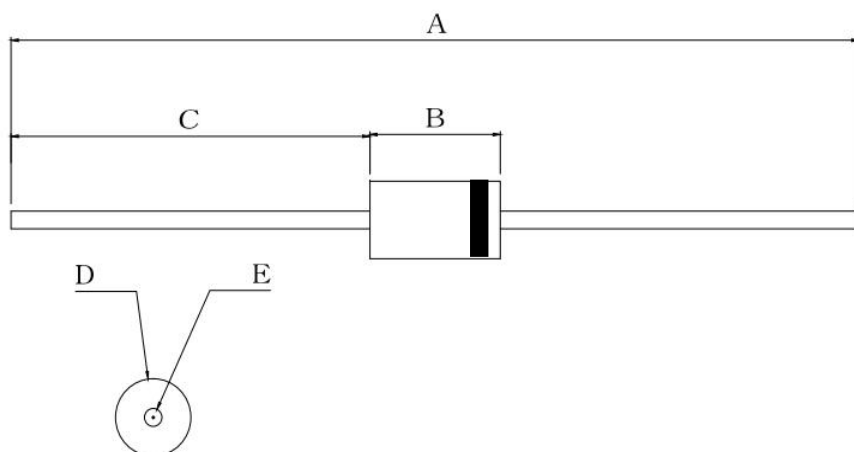
Specificati ons	A	B	C	D1-D2	E
DO-27/MM	10± 0.5	65±2.5	52.4±0.5	1.0MAX	6.0±0.4

DEVICE TYPE	BOX/CAR TOON	Q'TY/CAS E (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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