Express recovery diode Reverse Voltage800v Forward current-5A

Features

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

Mechanical Data

Package: DO-27

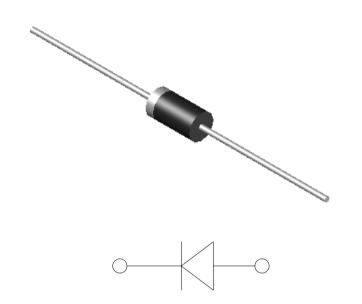
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant



Maximum Ratings (Ta=25 ℃ Unless otherwise specified)

		-	
Type Number	SYMBOL	SF59G	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS Voltage	V _{RMS}	560	V
Maximum DC Blocking Voltage	V _{DC}	800	V
Maximum Average Forward Rectified Current	IO _(AV)	5.0	А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	100.0	А
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	II OW	200.0	A
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	41.5	A ² S
Maximum Forward Voltage at 5.0A DC	V _{FM}	2.20	V
Maximum Reverse Current TA = 25° C	ID.	5.0	- uA
at Rated DC Blocking Voltage TA = 125℃	- IR	100.0	
Maximum reverse recovery time	Trr	35.0	ns
Typical Thermal Resistance Between junction and	R_{QJa}	40.0	°C/W
Operating Junction Temperature Range	T _J	55to+150	$^{\circ}$
Storage Temperature Range	T _{STG}	—55to+150	$^{\circ}$



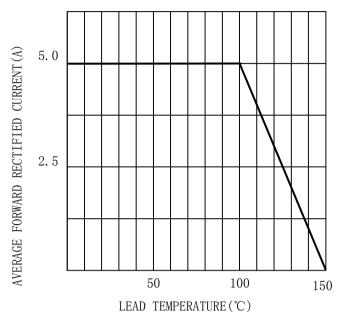


FIG. 2TYPICAL FORWARD CHARACTERISTICS

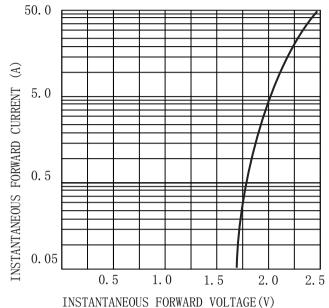


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

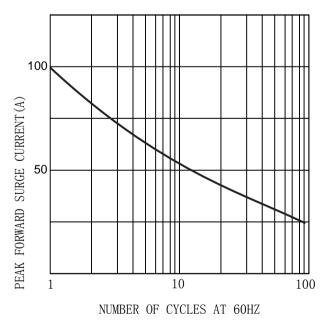
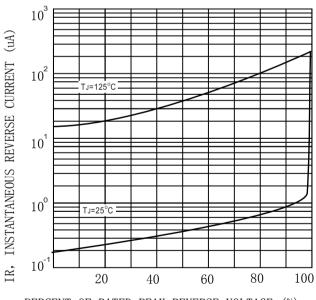


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



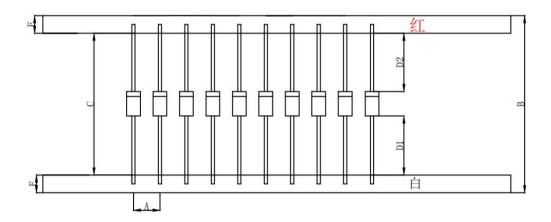
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



Print according to customer request

PACKING REQUIRMENTS

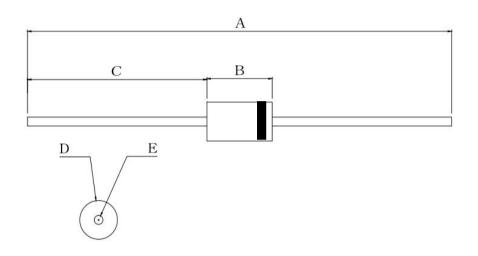


Specificati ons	Α	В	С	D1-D2	E
DO-27/MM	10± 0.5	65±2.5	52.4±0.5	1.0MAX	6.0±0.4

DEVICE	BOX/CAR	Q'TY/CAS
TYPE	TOON	E (pcs)
DO-27	1250	12500

Outline Dimensions

DO-27



D0-27					
DIM	INC HES		MM		
	MIN	MAX	MIN	MAX	
A	2. 23	2.35	56. 70	59. 70	
В	0.34	0.38	8.70	9. 70	
С	0.94	0.98	24.00	25.00	
D	0.19	0.22	4.90	5. 50	
Е	0.04	0.05	1. 10	1. 30	

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