Ultrafast recovery Rectifier diode Reverse Voltage50-1000v 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

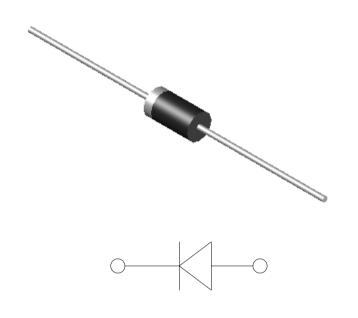
Terminals:Tin Plated leads, solderable per

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	HER 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	HER 508	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current	IO _(AV)	5.0				Α				
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	120.0 240.0					Α			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	II GIVI						Α			
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	59.8				A ² S				
Maximum Forward Voltage at 5.0A DC	V_{FM}		1		1	.3		1.70		V
Maximum Reverse Current TA = 25℃	ID	5.0								
at Rated DC Blocking Voltage TA = 125℃	IR	100.0				uA				
Maximum reverse recovery time	Trr	50			75		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. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

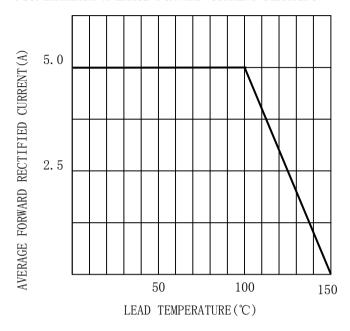


FIG. 2TYPICAL FORWARD CHARACTERISTICS

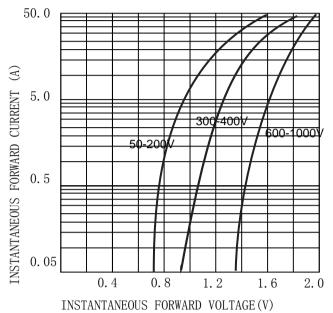


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

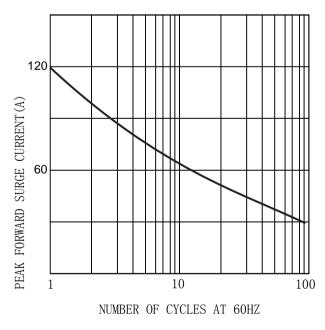
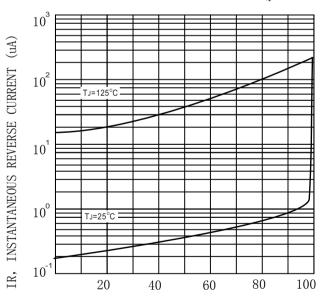


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



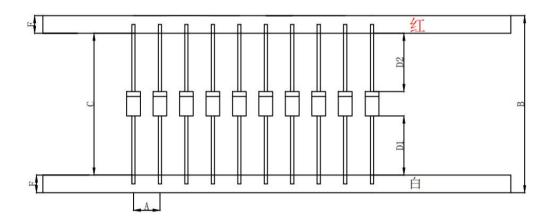
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



Print according to customer request

PACKING REQUIRMENTS

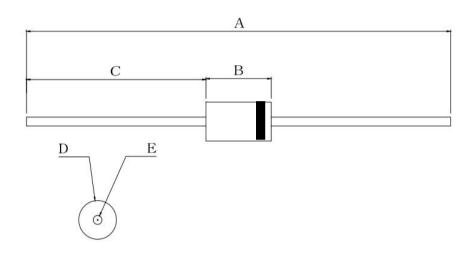


Specificati ons	Α	В	С	D1-D2	E
DO-27/MM	10± 0.5	65±2.5	52.4±0.5	1.0MAX	6.0±0.4

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

Outline Dimensions

DO-27



DO-27						
DTM	INC	HES	MM			
DIM	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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