

Data Sheet

Customer : _____

Product : Surface Mounted Supper Fast Rectifiers

Package : DO-214AC/SMA

Issued Date : 01-Aug.-2026

Edition : Ver. 1

Record of change

Date	Ver.	Description	Page
01-Aug.-2026	1		

HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,

New Taipei City, TAIWAN, R.O.C.

Tel: +886 2 2299 1331 (Rep.)

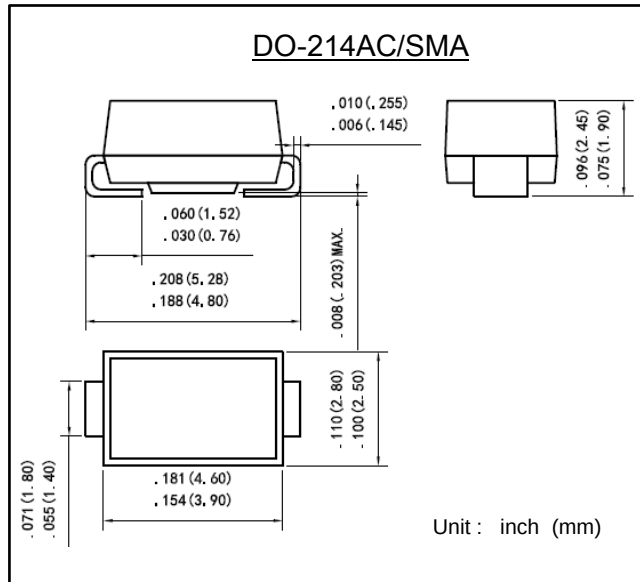
Fax: +886 2 2298 2466, 2298 2969

Prepared by	Checked by	Approved by	Accepted by (customer)
01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
<i>Randy Yu</i>	<i>Michelle Lin</i>	<i>Arthur Su</i>	

Surface Mounted Supper Fast Rectifiers

Reverse Voltage 50 ~ 1000 V

Forward Current 1.0 A



Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed : 260°C/10seconds
- Lead and body according with RoHS standard

Mechanical Data

- Case : DO-214AC Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Pure tin plated, lead free
- System : Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	HES1A-Q	HES1B-Q	HES1D-Q	HES1G-Q	HES1J-Q	HES1K-Q	HES1M-Q	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	1.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	30					25		A
Maximum forward voltage @IF=1.0A	V _F	0.95			1.25	1.70	2.20	3.20	V
Maximum reverse current @V _{DC} TA= 25°C TA= 125°C	I _R	5							μA
		100							
MAX. reverse recovery time IF=0.5A , IR=1.0A ,IRR=0.25A	T _{RR}	35							nS
Typical thermal resistance (Note 1)	R _{θ JA}	105							°C/W
Type junction capacitance VR=4.0V,f=1MHz	C _J	15							pF
Operating junction temperature rang	T _J	-55 --- +150							°C
Storage temperature rang	T _{STG}	-55 --- +150							°C

Note :

1) Thermal resistance from junction to ambient, PCB mounted.

Characteristic Curves

